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Research to Support Visitor Management at Muir Woods National Monument and Muir Beach

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Phase 1 Study Completion Report

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I. INTRODUCTION

As the name suggests, the national park system contains natural and cultural resources of national, and increasingly, international significance. Units of the national park system contain natural, historical, and cultural resources of great importance to the nation and, in many cases, to the international community. Given the significance of this resource base, public demand to see and experience these areas is not surprising. Data on visitation to the national park system dramatically support this premise as annual visits are now approaching 300 million.

The increasing popularity of the national park system presents a substantial challenge with regard to the quality of the visitor experience. Too many visitors may cause crowding and other social impacts which degrade the quality of the visitor experience. How many visitors can ultimately be accommodated in a park or related area? How much crowding and other impacts should be allowed? These and related questions are commonly referred to as carrying capacity (Manning, 1999; Stankey and Manning, 1986; Shelby and Heberlein, 1986; Graefe et al., 1984).

Muir Woods National Monument and Muir Beach are quintessential example of the issues noted above. These units of the national park system contain highly significant natural and recreational resources. As parts of the Golden Gate National Recreation Area, these sites draw several hundred thousand visits annually, and this may result in crowding, congestion, and other social impacts.

Several years ago, the National Park Service began developing a carrying capacity framework titled Visitor Experience and Resource Protection (VERP) (National Park Service, 1997; Hof et al., 1994; Manning, 2001). As the name suggests, this planning framework is aimed at maintaining the quality of the visitor experience and protecting natural and cultural resources in the face of increasing visitor use. VERP is built upon the same basic principles and concepts which drive other carrying capacity and related planning/management frameworks, including Limits of Acceptable Change (Stankey et al, 1985), Visitor Impact Management (Graefe et al., 1990), Carrying Capacity Assessment Process (Shelby and Heberlein, 1986), Quality Upgrading and Learning (Chilman et al., 1990), and the Recreation Management Planning Process (Manning, 1999).

VERP contains several critical steps that can be supported by research. The first step is gathering baseline data on visitor use and users. What are the demographic and socio-economic characteristics of visitors? What are patterns of visitor use, including length of stay, frequency of visits, and activities participated in? The second step is identification of indicators and standards of the quality of the visitor experience. Indicators are measurable, manageable variables which help define the quality of the visitor experience. Standards of quality define the minimum acceptable condition of indicator variables. Research suggests that visitors often have norms or standards about the conditions acceptable in a park or related area, and that such norms can be useful as a means of developing indicators and standards of quality (Shelby and Heberlein, 1986;

Shelby et al., 1992; Manning et al., 1996a; Manning et al., 1996b; Manning, 2001; Manning et al., 1999; Manning et al., 2000; Manning et al., 2002). The third step is monitoring of indicator variables. When monitoring demonstrates that indicator variables are no longer within acceptable standards, carrying capacity has been exceeded, and management action is required. The fourth step is selecting and implementing management actions. Management of visitor use can take many forms, but management actions should be both effective and as acceptable as possible to visitors.

VERP was initially applied to Arches National Park as a test case and a model for other units of the national park system (Hof et al., 1994; Manning et al., 1996b; Manning et al., 1993; Lime et al., 1994; Manning et al., 1995). This application resulted in a carrying capacity management plan that has now been implemented at that park (National Park Service, 1995). Additional applications of VERP are now proceeding at selected units of the national park system.

STUDY OBJECTIVES

The overall purpose of this study was to gather information that will help guide management of visitor use at Muir Woods National Monument and Muir Beach. The VERP framework described above was used to guide this process. In particular, study objectives focused on the four elements of the VERP framework that can benefit the most from empirical data: baseline data on visitor use and users, identifying indicators and standards of quality, monitoring, and management. Specific study objectives are as follows:

1. *Gather baseline data on visitor use and users.* Baseline data on visitor use and users is needed to guide planning and management of recreation. Data were collected on selected demographic and socio-economic characteristics of visitors to Muir Woods National Monument and Muir Beach, including residence, age, gender, and race/ethnicity. Data were also collected on selected visitor use patterns, including length of visit, frequency of visits, and activities in which visitors participated.
2. *Identify indicators and standards of quality.* As described above, indicators of quality are measurable, manageable variables which help define the quality of the visitor experience. Standards of quality represent the minimum acceptable condition of indicator variables. Data were gathered from visitors to help managers identify indicators and standards of quality for the visitor experience at Muir Woods National Monument and Muir Beach. Where appropriate, a visual approach using simulated photography was used to measure crowding-related norms.
3. *Study the relationship between use levels and potential indicators of quality at Muir Woods National Monument.* Better understanding of the relationship between use levels of this area and potential indicators of quality can be useful in monitoring and managing visitor use. This objective focuses on determining the relationship between daily visitation levels at Muir

Woods National Monument and potential indicators of quality such as selected measures of crowding and congestion. This relationship was studied by means of a computer-based simulation model of visitor use.

4. *Explore alternative visitor management practices.* VERP requires that management actions be undertaken to ensure that standards of quality are not violated. A study of visitor attitudes toward potential management actions is needed to ensure that management actions implemented are as acceptable as possible to visitors. This element of the research also included visitor attitudes toward selected planning and management issues at Muir Woods National Monument and Muir Beach.

THE REPORT

This report outlines study methods and findings for Phase 1 of this research project. This phase of work was conducted in 2003. A workshop has been scheduled for February, 2004 to discuss these study findings and to prepare a work plan for Phase 2 research to be conducted in the summer of 2004.

Visitor Surveys

Two research methods were used in this study: visitor surveys and visitor counts/observations. Visitor surveys were conducted at two locations within the park. These locations include Muir Beach and Muir Woods. An exit survey was administered at Muir Beach while both an exit as well as an entrance survey were administered at Muir Woods. Trained interviewers were stationed at each of these locations for thirteen to fifteen days during the month of August 2003. A total of 403 completed questionnaires were collected at Muir Beach representing a response rate of 61.0%. A total of 407 completed questionnaires were collected from visitors entering Muir Woods representing a response rate of 69.2%. A total of 406 completed questionnaires were collected from visitors exiting Muir Woods representing a response rate of 55.0%. Questions in the Muir Beach and Muir Woods exit questionnaires focused primarily on selected characteristics of park use and users, potential indicators and standards of quality for the park experience, and visitor attitudes toward selected park management issues. Questions addressing potential standards of quality focused on crowding-related issues, and used several series of computer-generated photographs representing a range of visitor use levels. Questions in the Muir Woods entrance questionnaire focused on park use patterns.

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At the beginning of each sampling period, the interviewers selected the first visitor group to complete their visit (or in the case of the entrance survey, to enter the park). Upon completion of the questionnaire, the interviewers selected the next visitor group to exit (or enter) the park. This process was continued throughout the survey period at Muir Beach and Muir Woods.

Visitor Counts and Observations

Input data to build a computer simulation model of visitor use were gathered at Muir Woods through the use patterns collected in the entrance questionnaire and through visitor counts and observations. A researcher was stationed at the entrance of Muir Woods during the primary hours this area was open during the month of August 2003. Researchers counted the total number of visitors who entered the area each half-hour. Additionally, researchers stationed at the area handed map diaries to those visitors who completed an entrance questionnaire. Visitors were requested to take the map diary along with them into the park and record where they walked/hiked in the park, beginning and ending times of their walk/hike, and where they stopped for more than five minutes. A total of 304 completed map diaries were collected at Muir Woods.

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III. STUDY FINDINGS

MUIR BEACH

Use and Users

Several questions addressed visitor socio-demographic characteristics such as age, gender, education, ethnicity, race and residence. Respondents were asked to record the year in which they were born. Table 1 presents a frequency distribution of visitor reported age. Visitors reported an average (mean) age of 43.1 years and a median age of 43 years. Respondents were then asked to indicate whether they were male or female. There were slightly fewer male (46.4%) than female (53.6%) respondents (Table 2). A subsequent question addressed respondents' educational background and results appear in Table 3. Overall, visitors to Muir Beach tended to be well educated with 94.9% having at least some college education or higher. Next, respondents were asked to indicate their ethnicity. A vast majority of respondents (94.1%) reported being not Hispanic or Latino (Table 4). When asked about what race they belonged to, a majority of respondents (89.1%) reported being white (Table 5).

Table 1. Age

Q 19a. In what year were you born?		
	Frequency	Percent
Less than 20	4	1.2
20 - 29	62	17.4
30 - 39	91	25.5
40-49	89	24.8
50 and over	64	17.9

N = 358; Mean = 43.1; Median = 43.0

Table 2. Gender

Q 19b. What is your gender?		
	Frequency	Percent
Male	163	46.4
Female	188	53.6

N = 351

Table 3. Highest level of formal education

Q 19c. What is the highest level of formal education you have completed?		
	Frequency	Percent
Less than high school	3	0.9
High school graduate	13	3.7
Vocational/ trade school certificate	5	1.4
Some college	19	5.4
Two-year college degree	13	3.7
Four-year college degree	124	35.5
Graduate degree	172	49.3

N = 349

Table 4. Ethnicity

Q 19d. In what ethnicity would you place yourself?		
	Frequency	Percent
Hispanic or Latino	17	5.9
Not Hispanic or Latino	272	94.1

N = 289

Table 5. Race

Q 19d. In what race would you place yourself?		
	Frequency	Percent
American Indian or Alaskan Native	4	1.2
Asian	9	2.6
Black or African American	7	2.1
Native Hawaiian or other Pacific Islander	1	0.3
White	304	89.1
Other	16	4.8

N = 341

Responses to questions addressing visitors' residence are presented in Tables 6 through

8. Visitors were asked whether they lived in the United States. A vast majority of respondents (94.3%) were from the United States (Table 6). Of these, most (74.2%) were from California (Table 7). Only 22 respondents were from another country (Table 8). These countries include United Kingdom, France, Canada, Chile, Belgium, and Holland.

Table 6. Residence

Q 4a. Do you live in the United States		
	Frequency	Percent
Yes	367	94.3
No	22	5.7

N = 389

Table 7. State

Q 4b. What is your Zip Code?		
	Frequency	Percent
Alabama	2	0.6
Arizona	1	0.3
California	256	74.2
Colorado	3	0.9
Connecticut	2	0.6
District of Columbia	1	0.3
Florida	6	1.7
Georgia	4	1.2
Hawaii	1	0.3
Illinois	6	1.7
Indiana	2	0.6
Iowa	1	0.3
Kentucky	2	0.6
Louisiana	1	0.3
Maine	1	0.3
Maryland	3	0.9

Massachusetts	3	0.9
Michigan	2	0.6
Minnesota	2	0.6
Mississippi	1	0.3
Missouri	1	0.3
Nevada	2	0.6
New Jersey	4	1.2
New Mexico	2	0.6
New York	7	2.0
North Carolina	4	1.2
Ohio	1	0.3
Oregon	4	1.2
Pennsylvania	4	1.2
Rhode Island	2	0.6
Texas	3	0.9
Utah	1	0.3
Vermont	2	0.6
Virginia	2	0.6
Washington	4	1.2
Wisconsin	2	0.6

N = 345

Table 8. Country of residence

Q 4a2. What country do you live in?		
	Frequency	Percent
United Kingdom	9	40.9
France	4	18.0
Canada	3	13.6
Germany	2	9.0
Catalina	1	4.5
Chile	1	4.5
Belgium	1	4.5
Holland	1	4.5

N = 22

Respondents were then asked if they were residents of the Muir Beach community.

Table 9 indicates that only 22 of the respondents belonged to this community. The next question asked respondents if they were a resident or visitor at the Green Gulch Farm. Table 10 indicates that 91.8% of respondents were not residents or visitors at the farm.

Table 9. Muir Beach community resident

Q 4b. Are you a resident of the community of Muir Beach?		
	Frequency	Percent
Yes	22	5.8
No	360	94.2

N = 382

Table 10. Green Gulch farm resident/ visitor

Q 4c. Are you a resident of or a visitor at Green Gulch Farm?		
	Frequency	Percent
Yes	28	8.2
No	314	91.8

N = 342

Next, respondents were asked several descriptive questions pertaining to their use of Muir Beach. One question asked respondents to report the number of people in their group. Table 11 indicates the frequency distribution of group size. Most visitors (65.1%) come to Muir Beach alone or in groups of 2 with an average (mean) group size of 2.8 people and a median group size of 2 people. The next question asked respondents to report the composition of their group. Results are shown in Table 12. The majority of visitors (83.3%) come in groups comprised of family and/or friends. Visitors were then asked if their group was part of a commercial tour. Results are shown in Table 13 and indicate that only 1 respondent belonged to a commercial tour.

Table 11. Group size

Q 1. How many people (including you) are in your group today?		
	Frequency	Percent
1	83	20.6
2	179	44.5
3	56	13.9
4	50	12.4
5	14	3.5
6	6	1.5
7	4	1.0
8	1	0.2
10	2	0.5
More than 10	7	1.5

N = 402; Mean = 2.8; Median = 2.0

Table 12. Group composition

Q 2a. How would you describe your personal group?		
	Frequency	Percent
Family	215	57.3
Friends	74	19.7
Family and friends	20	5.3
Organized group or club	5	1.3
School/ educational group	2	0.5
Other	59	15.7

N = 375

Table 13.

Q 2b. Is your personal group part of a commercial tour?		
	Frequency	Percent
Yes	1	0.2
No	400	99.8

N = 401

Next, visitors were asked if they had been to Muir Beach before. Results are shown in Table 14 and indicate that a majority of respondents (62.3%) were repeat visitors. A subsequent question asked respondents approximately how many times they had visited Muir Beach before. Table 15 indicates that repeat visitors had visited an average (mean) of 188 times and a median of 15 times.

Table 14. Prior visits to Muir Beach

Q 3a. Have you visited Muir Beach before?		
	Frequency	Percent
Yes	248	62.3
No	150	37.7

N = 398

Table 15. Approximate number of previous visits to Muir Beach

Q 3b. Approximately how many times have you visited Muir Beach before this trip?		
	Frequency	Percent
1	14	6.3
2	22	9.8
3	5	2.2
4	16	7.1
5	16	7.1
6	6	2.7
7	3	1.3
8	3	1.3
10	22	9.8
More than 10	117	151.8

N = 224; Mean = 188.0; Median = 15.0

In order to determine how visitors plan their visit to Muir Beach, respondents were asked to report the sources of information they used. Results are presented in Table 16. A previous visit (44.9%) was reported as the most popular source of information when planning the current visit. Respondents were also given the opportunity to indicate other sources of information they used. Results are presented in Table 17.

Table 16. Sources of information about Muir Beach

Q 13. Which of the following sources of information did you use to plan your visit to Muir Beach?			
	N	Yes	No
1. Guidebook/ map	370	23.5	76.5
2. Internet	370	7.3	92.7

3. Commercial tour company/ travel agent	370	0.8	99.2
4. Previous visit	370	44.9	55.1
5. Friend or relative	370	2.2	97.8
6. Contacted National Park Service	370	2.2	97.8
7. Other	404	14.1	85.9

Table 17. Other sources of information about Muir Beach

	Frequency	Percent
Accidental noticing of sign	1	2.3
Afternoon drive	1	2.3
Already knew about it	1	2.3
Did not plan, local person	1	2.3
Drive by	1	2.3
Driving through	1	2.3
Driving to Stinson	1	2.3
Drove by	1	2.3
Experience	1	2.3
Exploring	1	2.3
Found it by accident	1	2.3
Found it by chance	1	2.3
Found it while driving	1	2.3
Heart's desire	1	2.3
I live here	1	2.3
I live here	1	2.3
I live nearby	1	2.3
Just wandered in	1	2.3
Live close by	1	2.3
Live here	3	6.8
Live nearby	1	2.3
Local	2	4.5
Memory	2	4.5
My father is an avid hiker	1	2.3
Out for a drive	1	2.3
Passed on previous visits to Muir woods	1	2.3
Passing through	1	2.3
Random visit	1	2.3
Road sign	1	2.3
Road sign/spur of the moment	1	2.3
Road signs	1	2.3
Saw sign on road	1	2.3
San Francisco Chronicle	1	2.3
Sign	1	2.3
Signs on road	1	2.3
Stay @ Zen center	1	2.3
Stopped after visit to Muir woods	1	2.3
Walk from Green Gulch	1	2.3
Wrong turn	1	2.3
Youth hostel	1	2.3

N = 44

Next, visitors were asked what mode of transportation they used to get to Muir Beach. Results are presented in Table 18. Cars, trucks, vans or SUVs were reported as the most common means of transportation to the beach.

Table 18. Means of transportation to Muir Beach

Q 14. How did you get to Muir Beach today			
	N	Yes	No
1. Car/truck/van/SUV	381	92.4	7.6
2. Camper/RV	380	0.3	99.7
3. Tour bus	381	0	100
4. Public bus	381	0	100
5. Ferry	381	0	100
6. Taxi	381	0	100
7. Walked/hiked/jogged	381	3.9	96.1
8. Biked	381	1.3	98.7
9. Motorcycle	381	0	100
10. Other	381	0.6	99.4

Other visitor use questions pertained to facilities used, activities participated in, and equipment brought to Muir Beach. Results appear in Tables 19 through 21. Visitors tended to use multiple facilities, participate in multiple activities, and bring several types of equipment while at the beach. Percentages in Table 19, 20 and 21 refer to the number of visitors using selected facilities, participating in selected activities or bringing selected equipment. The most frequently used facilities/areas were the beach (94.7%) and restrooms (52.7%) (Table 19). Walking on the beach (91.3%), viewing wildlife (62.0%) and lying on the beach (47.9%) were cited as the most popular activities (Table 20). Ice chests, coolers and picnic baskets (21.6%) were reported as the most commonly brought items (Table 21).

Table 19. Facilities/areas used

Q 10. Which of the following facilities/areas did you visit?			
	N	Yes	No
a. The beach	380	94.7	5.3
b. The picnic area	326	10.7	89.3
c. The restroom	347	52.7	47.3
d. Green Gulch Trail	323	15.8	84.2
e. Coyote Ridge Trail	319	12.5	87.5
f. Coast Trail	333	21.6	78.4
g. Middle Green Gulch Trail	321	5.9	94.1
h. Dias Ridge Fire road	321	0.6	99.4
i. Redwood Creek Trail	322	3.7	96.3
j. Levee Road Trail	320	1.3	98.8
k. Horse facilities at Golden Gate Dairy	319	0.6	99.4
L. Green Gulch Farm retreat facilities	323	5.9	94.1
m. Tennessee Valley	322	4.7	95.3
n. Muir Woods National Monument	330	19.4	80.6
o. Mt. Tamalpais State Park	321	10.6	89.4

Table 20. Activities participated in

Q 9. In which of the following activities did you participate?			
	N	Yes	No
a. Picnicking	333	23.4	76.6
b. Lying on the beach	340	47.9	52.1
c. Walking on the beach	367	91.3	8.7
d. Hiking on a trail	333	41.7	58.3
e. Walking your dog	325	20.6	79.4
f. Horseback riding	313	1.3	98.7
g. Surfing	318	4.7	95.3
h. Hiking to Muir Beach from outside the park or From other park sites	318	9.1	90.9
i. Bicycling	316	5.4	94.6
j. Viewing wildlife	337	62.0	38.0
k. Other	404	9.9	90.1

Table 21. Equipment used

Q 16. Do you or does anyone in your group have any of the following equipment that you have brought along for today's trip?			
	N	Yes	No
1. Ice chest/cooler/picnic basket	282	21.6	78.4
2. Lawn chairs/beach chairs	282	9.6	90.4
3. Beach umbrella/beach gear	282	6.7	93.3
4. Stroller	282	1.1	98.9
5. Bicycle	282	3.5	96.5
6. Wheelchair	282	0.4	99.6
7. Surfboard/windsurfer/sailboard	282	3.2	96.8
8. Wetsuit/SCUBA gear	282	2.1	97.9
9. Kayak/sailboat	282	0.7	99.3
10. Camping gear/hiking gear	282	4.6	95.4
11. Other	282	18.9	81.1

The next question addressed special access needs at the beach. Visitors were asked if they or any member of their group had any special access needs. Results are presented in Table 22. Ten visitors had special needs. These included needing a wheelchair, closer parking, or a boardwalk (Table 23).

Table 22. Special access needs

Q 20. Did you or any members of your group have any special access needs?		
	Frequency	Percent
Yes	10	2.8
No	345	97.2

N = 355

Table 23. Specific special access needs

	Frequency	Percent
Limited walking ability	1	20.0
Older woman with knee problems, longer wooden walk	1	20.0
Slightly disabled need close parking	1	20.0
Wheelchair	1	20.0
Wife uses a cane: boardwalk to beach front would have been helpful	1	20.0

N = 5

Finally, visitors were asked about the duration of their visit to Muir Beach. Slightly over a third of respondents (37.5%) reported staying (or planning to stay) for less than an hour. Additionally, a little over another third (37.5%) reported staying (or planning to stay) for between 1 to 2 hours (Table 24).

Table 24. Length of visit

Q 15. How long did you stay (or do you plan to stay) at Muir Beach today		
	Frequency	Percent
Less than 1 hour	139	37.5
1 to 2 hours	139	37.5
2 to 3 hours	72	19.4
More than 3 hours	21	5.7

N = 371

Indicators and Standards of Quality

A series of questions was used to determine potential indicators of quality of the visitor experience at Muir Beach. An initial set of questions asked respondents to report in an open-ended format what they enjoyed most and least about their visit to Muir Beach. Various responses were given to these questions (verbatim responses are recorded in Appendix C), and answers were grouped into similar categories and are presented in Tables 25 and 26. Most respondents reported that they enjoyed the natural beauty, pristine environment and views at Muir Beach. The most commonly reported item that is subject to management was the peace and quiet at the beach. The most commonly reported items that respondents enjoyed least were the weather (21.5%) and litter (17.8%).

Table 25. Enjoyed most

Q 5a. What did you enjoy most about your visit?		
	Frequency	Percent
Natural beauty/pristine environment/views/nature	163	27.6
Beach/surf/ocean	83	14.0
Natural features (e.g., cliffs, tide pools, wetland, rocks)	52	8.8
Calm/peaceful/quiet/relaxing	45	7.6
Weather	33	5.6
Opportunity to bring dog	31	5.2
Activities (e.g., sitting on beach, swimming, surfing)	26	4.4
Accessibility/convenience/parking	25	4.2
Trails/hiking	21	3.6
Cleanliness/well maintained	18	3.0
Birds/wildlife	18	3.1
Lots of people/friendly people	17	2.9
Lack of crowding	16	2.7
Nude beach	10	1.7
Non commercial/undeveloped	7	1.2
Everything	7	1.2
Free	4	0.6
Facilities (e.g., picnic area, fire rings)	2	0.3
Restrooms	2	0.3
Miscellaneous	11	1.9

Number of responses = 591

Table 26. Enjoyed least

Q 5b. What do you enjoy least about your visit?		
	Frequency	Percent
Wind/weather/blowing sand/too hot/cold/foggy	81	21.5
Litter/trash/charcoal/cigarette butts/glass	67	17.8
Polluted water	61	16.2
Restrooms inadequate/dirty	35	9.3
Dogs/dog droppings	34	9.0
Dead wildlife	17	4.5
Crowding	16	4.2
Too many cars/disorganized parking	8	2.1
Horses/horse droppings	5	1.3

Leash law/having to keep dogs on leash	5	1.3
Nude beach	4	1.1
Lack of drinking water/drinks	3	0.8
Fire pits	3	0.8
Liked everything/nothing	2	0.5
Trail erosion/impacts	2	0.5
Miscellaneous	34	9.0

Number of responses = 377

Additionally, visitors were given the opportunity to answer the following questions in an open-ended format: "If you could ask the National Park Service to change some things about the way they manage Muir Beach, what would you ask them to do?", "What do you value most about your visit to Muir Beach?", and "What do you consider to be the most important qualities of Muir Beach?" Again, various responses were given to these questions (verbatim responses are recorded in Appendix C), and answers are grouped into similar categories and are presented in Tables 27 through 29. About 16.0% reported that management should provide more facilities. Another 14.7% reported that management should provide more or improve the restrooms (Table 27). Regarding what they valued most about Muir Beach, about a quarter of visitors (25.5%) reported they value the natural beauty, scenery and views the most (Table 28). Other important values included the accessibility of the area (12.5%), and the peace and calm of its character (10.9%). When asked about the most important qualities of Muir Beach, 18.8% noted it's natural beauty and scenery. Other important qualities include the area's natural features/protected habitat (15.4%) and its accessibility (12.5%) (Table 29).

Table 27. Management improvements

Q 5c. If you could ask the National Park Service to change some things about the way they manage Muir Beach, what would you ask them to do?		
	Frequency	Percent
More facilities (e.g., picnic tables, trash cans, drinking water, changing rooms)	41	15.5
More/improve restrooms	39	14.7
Clean up litter/trash	32	12.1
Keep up the good work/great as is	28	10.6
Clean up water pollution	20	7.6
Enforce leash law/ban dogs	20	7.6
Allow dogs off leash	14	5.3
Improve/expand parking	13	4.9
More signs	13	4.9
Maintain naturalness/avoid development	5	1.9
Limit use	5	1.9
Additional activities (e.g., camping, trails)	3	1.1
Remove dead animals	3	1.1
Limit commercial tours/use	2	0.8
Miscellaneous	27	10.2

Number of responses = 265

Table 28. Value most

Q 5e. What do you value most about your visit to Muir Beach?		
	Frequency	Percent
Natural beauty/scenery/views	108	25.5
Accessibility/closeness to home	53	12.5
Peaceful/calm/safe	46	10.9
Beach/ocean/sand	23	5.4
Protected habitat/natural features/nature/wildlife	23	5.4
Dogs are allowed	18	4.3
Trails/hiking	17	4.0
Non-commercialized/not developed	15	3.5
Clean	15	3.5
It exists/unchanged/unspoiled	14	3.3
Family atmosphere/friends/nice people	12	2.8
Lack of crowding	11	2.6
Seclusion/remoteness	11	2.6
Relaxation	10	2.4
Small size	10	2.4
Nude bathing	9	2.1
Free	4	0.9
Weather	3	0.7
Picnicking	2	0.5
Ample parking/ease of parking	2	0.5
Miscellaneous	18	4.2

Number of responses = 424

Table 29. Important qualities

Q 5f. What do you consider to be the most important qualities of Muir Beach?		
	Frequency	Percent
Natural beauty/scenery/views	93	18.8
Natural features/protected habitat/nature/wildlife	76	15.4
Accessibility/closer to home	49	9.8
Beach/ocean/sand	37	7.5
Clean	35	7.0
Quiet/calm/peaceful/safe	27	5.5
Remoteness/isolation/privacy	25	5.0
Small scale	23	4.6
Trails/hiking	20	4.0
Lack of development/non-commercial	18	3.6
Lack of crowding	17	3.4
Dogs are allowed	17	3.4
Family atmosphere/friendly people	10	2.0
Free	8	1.6
Weather	7	1.4
Nude beach	5	1.0
It exists/unchanged/unspoiled	5	1.0
Ample parking	3	0.6
Miscellaneous	19	3.8

Number of responses = 495

In order to gauge the extent to which conditions at Muir Beach have changed, repeat visitors were asked to briefly describe in an open-ended format what has changed both for the better and the worse since their last visit to Muir Beach. Various responses were given to these questions (verbatim responses are recorded in Appendix C), and answers are grouped into similar categories and are presented in Tables 30 and 31. Visitors recorded a variety of responses to the question as to what had changed for the better since their last visit. About a third of visitors (30.1%) reported the beach had improved access. Other perceived improvements include dune restoration and other resource protection (20.6%), and improved maintenance (14.0%). About 17.0% reported that nothing had changed since their last visit (Table 30). Similarly, visitors recorded a variety of responses to the question as to what had changed for the worse since their last visit. Just under a quarter of respondents (22.9%) felt that nothing had changed for the worse. However, 13.8% of visitors felt that litter is more of a problem now than when they last visited. Other important perceived changes include water pollution (11.0%) and restricted access/parking (11.0%) (Table 31).

Table 30. Changed for the better

	Frequency	Percent
Improved access (e.g., trash parking, roads, boardwalk, bridge)	41	30.1
Dune restoration/natural resource protection/habitat restoration	28	20.6
Nothing/hasn't changed	23	16.9
Cleaner/better maintained	19	14.0
More/better restrooms	3	2.2
More/improved trails	3	2.2
Fewer people/less crowded	3	2.2
More people/more crowded	1	0.7
Miscellaneous	15	11.0

Number of responses = 136

Table 31. Changed for the worse

	Frequency	Percent
Nothing	25	22.9
Litter/trash/glass	15	13.8
Polluted water	12	11.0
Access is more difficult/lack of parking	12	11.0
Crowding	9	8.3
Dogs/dog droppings	6	5.5
Restrooms	5	4.6
Houses/construction/pollution from houses	3	2.8
No water fountain/drinking water	3	2.8
Dead animals	2	1.8
Improved facilities (e.g., picnic area)	2	1.8
Nude bathers	1	0.9
Miscellaneous	14	12.8

Number of responses = 109

A related battery of questions measured the extent to which visitors felt selected issues were a problem (Table 32). Overall, most visitors rated most issues as "Not a Problem." Issues

rated as the biggest problems were lack of drinking water (mean = 1.9), finding a parking place (mean = 1.6), dogs off leash (mean = 1.5), too many people on the beach (mean = 1.5), water flooding on Pacific Way (mean = 1.5), large groups of people along trails (mean = 1.4), lack of picnic facilities (mean = 1.4), lack of public transit access (mean = 1.4), and gate at entrance opens too late for early morning visitors (mean = 1.4).

Table 32. Potential problems at Muir Beach

Q 6. To what extent do you think the following issues are problems?						
	N	Not a Problem	Small Problem	Big Problem	Don't Know	Mean
		1	2	3		
a. Too many people on the beach	386	56.7	30.6	7.8	4.9	1.5
b. Too many people along trails	389	64.0	19.5	3.3	13.1	1.3
c. Large groups of people along trails	376	58.8	19.9	5.3	16.0	1.4
d. Finding a parking place	386	54.9	30.8	11.1	3.1	1.6
e. Finding your way to Muir Beach	379	92.1	4.5	0.8	2.6	1.1
f. Finding your way around Muir Beach	387	94.1	3.4	0	2.6	1.0
g. Visitors making too much noise	386	75.1	17.4	2.8	4.7	1.2
h. Too much noise from outside the park	386	84.5	7.0	1.6	7.0	1.1
i. Lack of information about Muir Beach	382	66.5	24.1	3.7	5.8	1.3
j. Waiting to use restrooms	387	76.7	11.9	2.1	9.3	1.2
k. Dogs off leash	384	63.3	21.4	12.2	3.1	1.5
L. Lack of picnicking facilities	392	62.5	25.3	5.6	6.6	1.4
m. Lack of drinking water	384	31.0	39.6	21.9	7.6	1.9
n. Not enough fire rings	381	65.1	19.2	2.1	13.6	1.3
o. Lack of public transit access	382	61.5	14.9	8.1	15.4	1.4
p. Gate at entrance opens too late for early morning visitors	386	51.6	16.1	7.8	24.6	1.4
q. Winter flooding on Pacific Way (the road leading from Highway 1 to the parking lot)	375	42.4	15.2	9.6	32.8	1.5

Respondents were asked a series of questions regarding the study photographs showing a range of visitors at Muir Beach. The first question asked respondents to rate the acceptability of the six photographs. Acceptability was measured using a nine-point Likert-type scale ranging from -4 ("Very Unacceptable") to +4 ("Very Acceptable"). Zero represented the middle of this scale or the point of indifference. The second question in the series asked respondents to indicate the photograph that showed what they would prefer to see. A third question asked visitors to indicate which photograph showed the condition that would be so unacceptable that they would no longer visit Muir Beach. Further, respondents were given the opportunity to

indicate that, “none of the photographs are so unacceptable that I would no longer visit this area.” The fourth question asked visitors to select the photograph representing the highest level of visitor use they thought the National Park Service should allow, or the point at which visitor use should be restricted. Additionally, visitors were given the opportunity to indicate none of the photographs show a high enough level of visitor use to restrict use or that use should not be restricted at all. The fifth question referred to existing conditions. Respondents were asked to indicate the photograph that most represented the condition they “typically saw today.” Findings from this series of questions are presented below (Tables 33 through 37 and Figure 1) and summarized in Table 38.

Figure 1 and Table 33 indicate that smaller numbers of visitors are more acceptable than larger numbers of visitors and that aggregate evaluations of the photographs fall out of the acceptable range into the unacceptable range at 232.5 people-at-one-time (PAOT). This value is referred to as “acceptability.” Table 34 presents a breakdown of visitor preferences for PAOT at Muir Beach. Respondents preferred to see an average (mean) of 89.7 PAOT. This value is referred to as “preference.” As shown in Table 35, visitors reported that an average (mean) of 276.0 PAOT at the beach would be so unacceptable that they would no longer visit the area. This value is referred to as “displacement.” Visitors reported that the National Park Service should allow an average (mean) of 227.7 PAOT (Table 36). This value is referred to as “management action.” Additionally, approximately 13% of respondents reported that none of the photographs showed a high enough level of use to restrict visitors. Another 25% reported that visitor use should not be restricted at all. Results of the final question in the series are presented in Table 37. Respondents reported that they typically saw an average (mean) of 87.9 PAOT on the beach on the day they were contacted for this study. This value is referred to as “existing conditions.” The above results are summarized in Table 38.

Table 33. Acceptability for PAOT at Muir Beach

Q 7a. We would like to know how many people you think could use the beach at Muir Beach without you feeling too crowded											
Photo number	N	-4	-3	-2	-1	0	1	2	3	4	Mean
Photo 1 (0)	361	1.7	1.1	0.6	0.6	1.7	1.7	0.8	3.3	88.6	3.6
Photo 2 (69)	359	0.8	0.3	0.3	1.1	2.5	3.3	7.0	22.6	62.1	3.3
Photo 3 (138)	360	1.9	1.9	1.7	4.7	11.1	11.9	18.1	21.4	27.2	2.0
Photo 4 (207)	352	5.7	6.8	9.4	12.8	10.8	13.4	14.8	12.8	13.6	0.6
Photo 5 (276)	363	19.8	18.2	14.3	11.0	8.3	9.1	6.6	2.8	9.9	-1.0
Photo 6 (345)	363	44.1	12.9	9.4	5.5	8.5	4.7	3.6	2.2	9.1	-1.9

Table 34. Preference (PAOT)

Q 7b. Which photograph shows the level of use you would prefer to see at the beach?		
	Frequency	Percent
Photo 1 (0)	80	22.7
Photo 2 (69)	155	44.0
Photo 3 (138)	73	20.7

Photo 4 (207)	25	7.1
Photo 5 (276)	8	2.3
Photo 6 (345)	11	3.1

N = 352; Mean = 2.3 (89.7 PAOT); Median = 2.0 (69 PAOT)

Table 35. Displacement (PAOT)

Q 7c. Which photograph shows the level of use you think is so unacceptable that you would not return to Muir Beach?		
	Frequency	Percent
Photo 1 (0)	7	2.1
Photo 2 (69)	2	0.6
Photo 3 (138)	14	4.1
Photo 4 (207)	36	10.6
Photo 5 (276)	53	15.5
Photo 6 (345)	106	31.1
None of the photographs are so unacceptable	123	36.1

N = 341; Mean = 5.0 (276.0 PAOT); Median = 5.0 (276.0 PAOT)

Table 36. Management action (PAOT)

Q 7d. Which photograph shows the highest level of use you think the National Park Service should allow on the beach?		
	Frequency	Percent
Photo 1 (0)	2	0.6
Photo 2 (69)	10	3.0
Photo 3 (138)	34	10.2
Photo 4 (207)	71	21.4
Photo 5 (276)	49	14.8
Photo 6 (345)	40	12.0
None of the photographs show a high enough level of use to restrict visitors	44	13.3
Visitor use should not be restricted	82	24.7

N = 332; Mean = 4.3 (227.7 PAOT); Median = 4.0 (207 PAOT)

Table 37. Existing conditions (PAOT)

Q 7e. Which photograph looks most like the number of visitors you typically saw at the beach today?		
	Frequency	Percent
Photo 1 (0)	59	17.0
Photo 2 (69)	168	48.3
Photo 3 (138)	90	25.9
Photo 4 (207)	25	7.2
Photo 5 (276)	4	1.1
Photo 6 (345)	2	0.6

N = 348; Mean = 2.3 (89.7 PAOT); Median = 2.0 (69.0 PAOT)

Table 38. Summary (PAOT at Muir Beach)

	N	Photo (PAOT) Number (Mean)	Photo (PAOT) Number (Median)
Acceptability		232.5 PAOT	
Preference	352	2.3 (89.7)	2.0 (69.0)
Displacement	341	5.0 (276.0)	5.0 (276.0)
Management action	332	4.3 (227.7)	4.0 (207.0)
Existing conditions	348	2.3 (89.7)	2.0 (69.0)

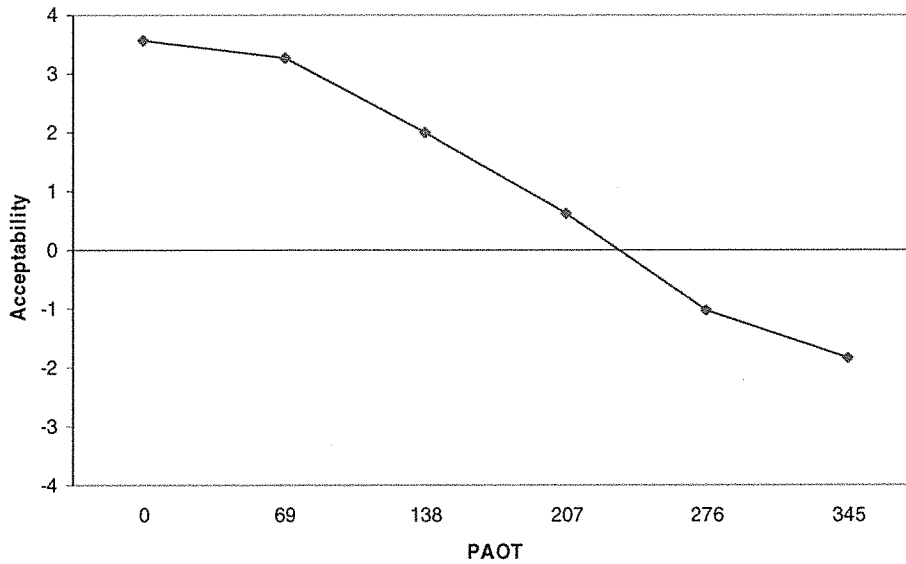


Figure 1. Social Norm Curve for People-At-One-Time (PAOT) at Muir Beach

Finally, respondents were asked to report how crowded they felt at various locations using a response scale that ranged from 1 ("Not at all Crowded") to 9 ("Extremely crowded") (Table 39). Generally, perceived crowding levels were quite low. About half of respondents reported that they were "Not at all Crowded" overall.

Table 39. Perceived crowding

Q 8. How crowded did you feel?

	N	1 Not at all crowded	2	3	4	5	6	7	8	Extremely crowded 9	Mean
a. At the beach	381	53.0	23.1	12.6	4.7	2.1	2.4	1.3	0.8	0	2.0
b. Along the trails	321	61.4	22.4	10.0	2.5	1.2	0.9	0.3	1.2	0	1.7
c. In the parking area	377	41.6	18.6	17.5	8.2	4.2	5.3	2.1	1.3	1.1	2.5
d. Along the road to the park	358	51.4	22.1	13.1	4.2	2.2	4.5	1.1	1.4	0	2.1
e. Overall	365	50.1	22.7	16.4	3.6	3.6	2.5	1.1	0	0	2.0

Visitor Attitudes about Park Management

Visitors were asked several questions regarding their attitudes toward selected park management issues. The first question asked visitors to rate selected facilities/services in order to gauge their perceptions about the adequacy of these facilities/services. Results are shown in Table 40. Overall, most visitors rated all facilities/areas as adequate. Slightly less than a half of respondents (49.0%) rated cleanliness of restrooms as "Very Poor" or "Poor."

Table 40. Rating of facilities and services

Q 12. How would you rate the following facilities and services at Muir Beach?							
	N	Very Poor (1)	Poor (2)	Adequate (3)	Good (4)	Excellent (5)	Mean
a. Amount of information	331	5.4	26.3	49.5	14.8	3.9	2.9
b. Quality of information	327	4.6	22.3	52.9	16.2	4.0	2.9
c. Trails and trail connections	314	1.3	5.1	47.1	32.2	14.3	3.5
d. Trail signage	298	0.7	11.4	51.0	27.2	9.7	3.3
e. Number of restrooms	321	3.1	10.0	54.5	23.1	9.3	3.3
f. Type of restrooms	317	16.7	20.8	43.5	13.9	5.0	2.7
g. Cleanliness of restrooms	298	24.2	24.8	37.6	9.7	3.7	2.4
h. Availability of picnic tables	264	5.3	16.3	56.8	15.5	6.1	3.0

Another question addressed conflicts with other visitors while at Muir Beach. The vast majority of respondents (95.8%) reported experiencing no conflicts during their visit (Table 41). Those who experienced conflicts described these as related to the presence of dogs (61.5%), contaminated water (15.4%), and behavior of other visitors (15.4%) (Table 42).

Table 41. Conflicts

Q 11a. Did you experience any conflicts today with visitors participating in other recreation activities at Muir Beach?		
	Frequency	Percent
Yes	16	4.2
No	369	95.8

N = 385

Table 42. Description of the conflict

Q 11b. Briefly describe the conflict		
	Frequency	Percent
Presence of dogs	8	61.5
Water pollution	2	15.4
Behavior of other visitors	2	15.4
Parking	1	7.7

N = 13

The next set of questions addressed visitor support for selected management alternatives. First, visitors were asked to indicate the extent to which they would support/oppose management alternatives related to parking fees, education and volunteer opportunities. Results

are presented in Table 43. Overall, respondents indicated they were equally divided about charging a modest fee for parking at the beach during busy times (mean = -0.2). They also indicated they would support providing more education (mean = 0.9) and more opportunities for people to volunteer for conservation projects (mean = 1.2). Slightly less than two-thirds of respondents (62.9%) indicated they either opposed or strongly opposed a modest fee to park at Muir Beach. Visitors were then asked to indicate the extent to which they would support/oppose parking lot management alternatives (Table 44). Overall, respondents indicated they would support maintaining the current size of the parking lot at the beach, but altering its configuration to minimize its potential environmental impacts (mean = 0.9).

Table 43. Attitude toward management alternatives

Q 17. Indicate the extent to which you would oppose or support these suggestions							
	N	Strongly oppose (-2)	Oppose (-1)	Neither oppose nor support (0)	Support (1)	Strongly support (2)	Mean
a. Charge a modest fee (no more than \$5.00) to park at Muir Beach (to discourage crowding and help support a public transportation system)	369	39.6	23.3	16.3	13.3	7.6	-0.7
b. Charge a modest fee (no more than \$5.00) to park at Muir Beach <u>during busy times only</u> (to discourage crowding and help support a public transportation system)	365	27.4	15.3	15.6	27.9	13.7	-0.2
c. Provide more education about natural/cultural history of the area	361	2.5	1.9	26.6	41.3	27.7	0.9
d. Provide more opportunities for people to volunteer for conservation projects at Muir Beach	364	1.1	0.8	19.2	35.4	43.4	1.2

Table 44. Level of support/opposition for parking lot management alternatives

Q 18. Indicate the extent to which you would oppose or support the following management alternatives							
	N	Strongly oppose (-2)	Oppose (-1)	Neither oppose nor support (0)	Support (1)	Strongly support (2)	Mean
a. Reduce size of the parking lot at the beach and provide shuttle bus service to meet additional parking demand	353	20.7	25.8	24.1	20.7	8.8	-0.3
b. Reduce the size of the parking lot at the beach and provide an overflow parking lot up to one half mile away (such as near the Pelican Inn)	354	17.2	15.8	21.8	33.1	12.1	0.1
c. Maintain the current size of the parking lot at the beach, but alter its configuration to minimize its potential environmental impacts	354	3.4	5.6	19.8	43.5	27.7	0.9
d. Increase the size and alter the configuration of the current parking lot	336	20.5	22.3	33.0	16.7	7.4	-0.3
e. Move all parking to a lot up to one half mile from the beach (such as near the Pelican Inn)	349	27.2	22.9	26.1	15.5	8.3	0.0

III. STUDY FINDINGS

MUIR WOODS (ENTRANCE SURVEY)

Use and Users

Visitors were asked several questions pertaining to their use of Muir Woods. The first question asked respondents to report the number of people in their group. Table 45 indicates the frequency distribution of group size. Most visitors (80.0%) come to Muir Woods in groups of 2 to 4 with an average (mean) group size of 3.7 people and a median group size of 3 people. The next question asked respondents to report the composition of their group. Results appear in Table 46. A vast majority of visitors (97.6%) come to Muir Woods in groups comprised of family and/or friends. Visitors were then asked if their group was part of a commercial tour. Results are shown in Table 47 and indicate that 4.6% of respondents belonged to a group that was part of a commercial tour.

Table 45. Group size

Q 1. How many people including you are in your group today?		
	Frequency	Percent
1	11	2.7
2	155	37.9
3	69	16.9
4	103	25.2
5	29	7.1
6	21	5.1
7	8	2.0
8	4	1.0
9	2	0.5
10	3	0.7
More than 10	4	0.8

N = 409; Mean = 3.7; Median = 3.0

Table 46. Group composition

Q 2a. How would you describe your personal group?		
	Frequency	Percent
Family	291	71.7
Friends	69	17.0
Family and friends	36	8.9
Organized group or club	3	0.7
School/ educational group	2	0.5
Other	5	1.2

N = 406

Table 47.

Q 2b. Is your personal group part of a commercial tour?		
	Frequency	Percent
Yes	19	4.6
No	390	95.4

N = 409

The next couple of questions asked respondents about prior visits to Muir Woods. Just under half the respondents (46.6%) had been to Muir Woods before (Table 48). When asked about the approximate number of visits to Muir Woods prior to the current trip, previous visitors indicated they had visited an average (mean) of 6.1 times and a median of 2 times (Table 49).

Table 48. Prior visits to Muir Woods

Q 3a. Have you visited Muir Woods before?		
	Frequency	Percent
Yes	190	46.6
No	218	53.4

N = 408

Table 49. Approximate number of visits to Muir Woods before the current trip

Q 3b. Approximately how many times have you visited Muir Woods before this trip?		
	Frequency	Percent
1	77	41.6
2	29	15.7
3	27	14.6
4	11	5.9
5	15	8.1
6	5	2.7
7	2	1.1
10	9	4.9
More than 10	10	5.3

N = 185; Mean = 6.1; Median = 2.0

Responses to questions addressing visitors' residence are presented in Tables 50 through 52. Visitors were asked whether they lived in the United States. A vast majority of respondents (91.9%) were from the United States (Table 50). Of these, (37.1%) were from California (Table 51). Only 33 respondents were from another country (Table 52). About a quarter of these respondents (24.2%) were from United Kingdom.

Table 50. Residence

Q 4. Do you live in the United States?		
	Frequency	Percent
Yes	376	91.9
No	33	8.1

N = 408

Table 51. State of residence

Q 4.1. What is your Zip Code?		
	Frequency	Percent
Alabama	1	0.3
Arizona	2	0.6
California	118	37.1
Colorado	10	3.1
District of Columbia	4	1.3
Florida	17	5.3
Georgia	1	0.3
Hawaii	1	0.3
Idaho	1	0.3
Illinois	17	5.3
Indiana	2	0.6
Iowa	1	0.3
Kansas	1	0.3
Maryland	11	3.5
Michigan	11	3.5
Minnesota	11	3.5
Missouri	6	1.9
Montana	1	0.3
Nebraska	3	0.9
Nevada	5	1.6
New Jersey	7	2.2
New Mexico	1	0.3
New York	22	6.9
North Carolina	4	1.3
Ohio	6	1.9
Oklahoma	1	0.3
Pennsylvania	14	4.0
South Carolina	1	0.3
Texas	13	4.0
Utah	5	1.6
Virginia	10	3.1
Washington	5	1.6
West Virginia	1	0.3
Wisconsin	5	1.6

N = 319

Table 52. Country of residence

Q 4.2. What country do you live in?		
	Frequency	Percent
United Kingdom	8	24.2
Sweden	1	3.0
Canada	3	9.1
Germany	7	21.2
France	2	6.1
Ireland	1	3.0
Mexico	1	3.0
Belgium	1	3.0
Holland	1	3.0
Scotland	1	3.0
Austria	1	3.0
England	5	15.2
Spain	1	3.0

N = 33

The final question in the entrance survey asked visitors to keep track of and report where they hiked in the park, including their route of travel, the times they started and ended their hike, and where they stopped for more than five minutes. Respondents were given a map diary to record this information. Findings are described in the section of this report addressing the computer simulation model of visitor use of Muir Woods.

III. STUDY FINDINGS

MUIR WOODS (EXIT SURVEY)

Use and Users

Several questions addressed visitor socio-demographic characteristics such as age, gender, education, ethnicity, race and residence. Respondents were asked to record the year in which they were born. Table 53 presents a frequency distribution of visitor reported age. Visitors reported an average (mean) age of 42.4 years and a median age of 43 years. Respondents were then asked to indicate whether they were male or female. There were slightly fewer male (47.7%) than female (52.3%) respondents (Table 54). A subsequent question addressed respondents' educational background and results appear in Table 55. Overall, visitors to Muir Woods tended to be well educated with 95.0% having at least some college education or higher. Next respondents were asked to indicate their ethnicity. A vast majority of respondents (96.0%) reported being not Hispanic or Latino (Table 56). When asked about what race they belonged to, a vast majority of respondents (92.4%) reported being white (Table 57).

Table 53. Age

Q 16a. (Q 15a.) In what year were you born?		
	Frequency	Percent
Under 20	10	2.7
20 – 29	55	17.4
30 – 39	77	20.8
40 – 49	106	27.2
50 – 59	86	23.2
60 – 69	25	6.9
70 and over	7	2.0

N = 370; Mean = 42.4; Median = 43.0

Table 54. Gender

Q 16b. (Q 15b.) What is your gender		
	Frequency	Percent
Male	177	47.7
Female	194	52.3

N = 371

Table 55. Highest level of formal education

Q 16c. (Q 15c.) What is the highest level of formal education you have completed?		
	Frequency	Percent
Less than high school	6	1.6
High school graduate	10	2.6
Vocational/trade school certificate	3	0.8
Some college	40	10.6
Two-year college degree	19	5.0
Four-year college degree	125	33.0
Graduate college	176	46.4

N = 379

Table 56. Ethnicity

Q 16d. (Q 15d.) In what ethnicity would you place yourself?		
	Frequency	Percent
Hispanic or Latino	13	4.0
Not Hispanic or Latino	311	96.0

N = 324

Table 57. Race

Q 16 d. (Q 15d.) In what race would you place yourself?		
	Frequency	Percent
American Indian or Alaska Native	0	0
Asian	16	4.3
Black or African American	4	1.1
Native Hawaiian or other Pacific Islander	2	0.5
White	340	92.4
Other American Indian or Alaska Native and white	6	1.6

N = 368

Respondents were then asked several descriptive questions pertaining to their use of Muir Woods. In order to understand how visitors plan their visit to Muir Woods, respondents were asked how they learned of its existence. Results are presented in Table 58. Guidebooks were reported as the most common source of information when planning the current visit.

Respondents were also given the opportunity to indicate sources of information used other than those presented in Table 58. Results are presented in Table 59.

Table 58. Sources of information

Q 8. (Q 7.) Which of the following sources of information did you use to plan your visit to Muir Woods?		
	Yes	No
1. Guidebook	50.0	50.0
2. Park Website (http://www.nps.gov/muwo/index.htm)	13.0	87.0
3. Other websites	6.1	93.9
4. Highway signs	38.9	61.1
5. Commercial tour company/travel agent	6.9	93.1
6. Previous visit	29.9	70.1
7. Friend or relative	35.2	64.8
8. Contacted National Park Service	0.8	99.2

9. Other	89.6	10.4
N = 378		

Table 59. Other sources of information

	Frequency	Percent
AAA	2	5.7
Book	1	2.6
Brochure	1	2.6
Concierge	1	2.6
Concierge @ hotel	1	2.6
Customer from work	1	2.6
Employee NPS	1	2.6
Flyer at motel	1	2.6
Guide dog school for the blind	1	2.6
Hostel house (San Francisco)	1	2.6
Hotel	1	2.6
Hotel in SF	1	2.6
Hotel in SF and lady in SuperShuttle	1	2.6
Hotel Info	1	2.6
Hotel service	1	2.6
Hotel staff (local)	1	2.6
Job Tour Guide	1	2.6
John	1	2.6
Just followed trail signs	1	2.6
Live here	1	2.6
Locals	1	2.6
My mom	1	2.6
Ly mother	1	2.6
Past brochure	1	2.6
Reputation	1	2.6
Rovan Guide to USA	1	2.6
S.F Recreation & Park Outing Club	1	2.6
Several visits in past years	1	2.6
Tourist Information	1	2.6
Travel books	1	2.6
Triple A guide	1	2.6
TV	1	2.6
Waiter in SF told us about the woods	1	2.6
We have been here several times	1	2.6

N = 35

Next, visitors were asked several questions regarding transportation and parking at Muir Woods. Visitors were asked what mode of transportation they used to get to Muir Woods. Results are presented in Table 60. Cars, trucks, vans or SUV's were reported as the most common means of transportation to Muir Woods. Regarding parking, a little under half the respondents (42.9%) parked in the main parking lot outside the park entrance (Table 61). Those who parked along the road were asked approximately how long they had to walk to get to the

park entrance. Visitors reported an average (mean) of 9.2 minutes and a median of 10.0 minutes to get to the park entrance (Table 62).

Table 60. Means of transportation to Muir Woods

Q 11. (Q 10.) How did you get to Muir Woods today?		
	Yes	No
1. Car/truck/van/SUV	92.2	7.8
2. Camper/RV	0.3	99.7
3. Tour bus	6.2	93.8
4. Public bus	0.8	99.2
5. Ferry	0	100
6. Taxi	0.3	99.7
7. Walked/hiked/jogged	0.3	99.7
8. Biked	1.0	99.0
9. Motorcycle	0.3	99.7
10. Other	0.7	99.3

N = 386

Table 61. Parking place

Q 12. (Q11.) If you drove to Muir Woods today, where did you park?		
	Frequency	Percent
1. In the main parking lot outside the park entrance	155	42.9
2. In the secondary parking lot down the road from the main parking lot	119	33.0
3. Along the road	86	23.8
4. Other	1	0.3

N = 361

Table 62. Minutes to walk to park entrance

About how long did you have to walk to get to the park entrance?		
Minutes	Frequency	Percent
0	2	2.8
2	1	1.4
3	2	2.8
4	1	1.4
5	10	13.9
7	4	5.6
8	1	1.4
10	34	47.2
11	1	1.4
15	12	16.7
20	2	2.8

N = 72; Mean = 9.2; Median = 10.0

Several questions pertained to facilities at Muir Woods. One question asked respondents if they had visited the visitor center, café, gift shop and restrooms while at the park. Those who had hiked beyond Muir Woods were asked about areas visited outside the park boundaries. Results are presented in Tables 63 and 64. Restrooms (84.3%) were the most commonly visited area in the park followed by the visitor center (70.8%) (Table 63). The Mountain Home Inn was

visited by only 2.7% of visitors hiking beyond the park boundaries (Table 64). Next, visitors were asked what options they would prefer regarding food service at Muir Woods. Slightly over a half of respondents (56.8%) reported that the current food service operation should be maintained (Table 65).

Table 63. Facilities/areas visited at Muir Woods

Q 6a. (Q 5.) Which of the following facilities/areas did you visit today at Muir Woods?			
	N	Yes	No
a. Visitor Center	377	70.8	29.2
b. Café	361	53.2	46.8
c. Gift Shop	376	68.6	31.4
d. Restrooms	381	84.3	15.7

Table 64. Facilities/ areas visited beyond Muir Woods

Q 6b. Which of the following facilities/areas did you visit today while hiking beyond Muir Woods?			
	N	Yes	No
a. Tourist club	108	0	100
b. West Point Inn	108	0	100
c. Mountain Home Inn	109	2.7	97.3

Table 65. Food service

Q 14. (Q 13.) Which of the following options would you prefer regarding food service at Muir Woods?		
	Frequency	Percent
Maintain current food service operation	200	56.8
Relocate café outside of the redwood grove but in Muir Woods National Monument (e.g., in the area the current parking lot)	120	34.1
Eliminate food service from within Muir Woods National Monument	32	9.1

N = 352

Another question pertaining to facilities asked visitors to indicate if they might use several suggested facilities and services. Findings are shown in Table 66. About half the respondents (51.2%) indicated they were likely to use a free hiker shuttle system that would allow for one way hikes through the area. In addition, 46.6% of respondents said they were likely to use an audio tour of Muir Woods. However, about two-thirds of respondents (63.3%) indicated they were unlikely to use bicycle rentals.

Table 66. Potential use of suggested facilities and services

Q 10. (Q 9.) Please indicate if you think you might use these facilities and services if they were offered					
	N	Yes, Likely (1)	Don't Know (2)	No, Unlikely (3)	Mean
a. Bicycle rentals (for use outside Muir Woods)	381	16.5	20.2	63.3	2.5
b. Long (2 or more hours) guided hikes	380	32.6	26.3	41.1	2.1

c. An audio tour of Muir Woods (to be used as you walk through the woods)	380	46.6	13.4	40.0	1.9
d. Half to one-day field workshops/seminars on natural and/or cultural history at Muir Woods and the surrounding area	378	32.8	29.1	38.1	2.1
e. A free hiker shuttle system that would allow for one-way hikes through the area	379	51.2	17.9	30.9	1.8
f. A hiker shuttle system with a modest fee that would allow for one-way hikes through the area	379	44.1	19.8	36.1	1.9

A couple of questions pertained to respondents' preferences regarding level of trail development. Respondents were shown three photographs of generic sections of trail representing a paved trail, a boardwalk and an unpaved trail (photos are shown in Appendix B). Respondents were asked to indicate which trail they preferred (Table 67). Further, respondents were asked in an open-ended question format to report why they preferred that particular type of trail. Responses to this question are categorized and presented in Tables 68 through 70. A plurality of respondents (43.5%) preferred boardwalks, but many respondents (39.8%) also preferred unpaved trails.

Table 67. Preferred level of trail development

Q 9a. (Q 8a.) Which of these trails do you prefer?		
	Frequency	Percent
Paved trail	59	16.8
Boardwalk	153	43.5
Unpaved trail	140	39.8

N = 352

Table 68. Paved trail

Q 9a. (Q 8a.) Why do you prefer the paved trail?		
	Frequency	Percent
Accessible/easy to walk	16	25.8
Restricts people to trails	9	14.5
Less erosion/impact	9	14.5
Safe	8	12.9
Comfortable/nicer	6	9.7
Natural	6	9.7
Clearly marked boundaries	3	4.8
Balance between natural and developed	3	4.8
Accommodates crowds	1	1.6
Less noise	1	1.6

N = 62

Table 69. Boardwalk

Q 9b. (Q 8b.) Why do you prefer the boardwalk?		
	Frequency	Percent
Accessible/easy to walk/comfortable	49	26.1
Natural	31	16.5
Less erosion/impact/protects trees	29	15.4
Aesthetic/attractive	22	11.7
Clean	15	8.0

Safe	9	4.8
Clearly marked boundaries	8	4.3
Accommodates crowds	8	4.3

N = 188

Table 70. Unpaved trail

Q 9c. (Q 8c.) Why do you prefer the unpaved trail?		
	Frequency	Percent
Natural	56	49.1
Rustic/primitive/remote	24	21.1
Deters crowds	9	7.9
Least intrusive	8	7.0
Better exercise/challenging/more like hiking	7	6.1
Quieter	5	4.4
Environmentally friendly	3	2.6
Easy to walk on	2	1.8

N = 114

The next question addressed special needs at Muir Woods. Visitors were asked if they or any member in their group had any special needs. Results are presented in Table 71. A majority of respondents (93.7%) did not have any special needs. Those who had special access needs were able to record them in an open-ended format (Table 72).

Table 71. Special access needs

Q 17. (Q 16.) Did you or any member of your group have any special access needs?		
	Frequency	Percent
Yes	24	6.3
No	359	93.7

N = 383

Table 72. Specific special access needs

	Frequency	Percent
Able to get around (had knee surgery)	1	4.2
Blind, guide dog	1	4.2
Cane	1	4.2
Child in high wheel stroller did most of park freely, a little less accessible on dirt paths. (unavoidable though)	1	4.2
Diabetic	1	4.2
Difficulty walking due to knee surgeries	1	4.2
Difficulty walking long distances	1	4.2
Friend is slow (handicap mentally)	1	4.2
HDC	1	4.2
My dad has trouble walking and used a cane. The trails are pretty level and clean.	1	4.2
My daughter was not feeling well so we were able to use a wheelchair which was very helpful	1	4.2
My mom need very accessible flat trails	1	4.2
My mother was in a wheelchair and it worked out well	1	4.2
My son is on crutches	1	4.2
Needed Handicap parking	1	4.2

Needed wheelchair borrowed from park service and really appreciated it	1	4.2
Needs cane	1	4.2
Non ambulatory	1	4.2
Trouble walking	1	4.2
Visually impaired	1	4.2
Walker	1	4.2
Wheelchair	1	4.2
Wheelchair (scooter)	1	4.2
Wheelchair/cane	1	4.2

N = 24

Indicators and Standards of Quality

A series of questions was used to determine potential indicators of quality of the visitor experience at Muir Woods. An initial set of questions asked respondents to report in an open-ended format what they enjoyed most and least about their visit to Muir Woods. Various responses were given to these questions (verbatim responses are recorded in Appendix C), and answers are grouped into similar categories and are presented in Tables 73 and 74. Not surprisingly, the most frequently reported aspect of the area that was most enjoyed was the trees (31.0%). The most commonly reported item that is subject to management was the sounds of nature, silence and quiet at the area. The most commonly reported item respondents enjoyed least was crowding (26.8%).

Table 73. Enjoyed most

Q 1a. What did you enjoy most about your visit?		
	Frequency	Percent
Trees (beauty, size, age)	299	31.0
Beauty/views/scenery	148	15.3
Peacefulness/serenity/calmness/tranquility	103	10.7
Trails/walking/hiking/	94	9.7
Sounds of nature/silence/quiet	60	6.2
Natural features/animals/habitat/stream	47	4.9
Majesty/splendor/setting	31	3.2
Accessibility	23	2.4
Information/education/interpretive signs/brochure/nature walks	23	2.4
Smells	19	2.0
Lack of crowding/getting away from people	15	1.6
Weather	15	1.6
Cleanliness	14	1.4
Everything	9	0.9
Fresh air/clean air/being outside	9	0.9
Lack of development	7	0.7
Relaxing/visiting at our own pace	6	0.6
Park staff (friendly, helpful, professional)	5	0.5
Lack of impacts	3	0.3
Gift shop	1	0.1
Restrooms (clean)	1	0.1
Miscellaneous	34	3.5

Number of responses = 966

Table 74. Enjoyed least

Q 1b. What did you enjoy least about your visit?		
	Frequency	Percent
Crowding	108	26.8
Nothing/everything good	64	15.9
Noisy/loud talking	46	11.4
Lack of parking	40	9.9
Gift shop/café	12	3.0
Lack of information/education/interpretation	10	2.5
Boardwalks/hardened trails	10	2.5
Restrooms (insufficient, unclean)	9	2.2

Closed trails	7	1.7
Yellowjackets	7	1.7
Long hike	6	1.5
Dust	6	1.5
Litter/trash	5	1.2
Restricted to trails	5	1.2
Little wildlife	4	1.0
People off trails	4	1.0
Steep trails	3	0.7
Weather	3	0.7
Trails poorly marked	1	0.2
Miscellaneous	53	13.2

Number of responses = 403

Additionally, visitors were given the opportunity to answer the following questions in an open-ended format: "If you could ask the National Park Service to change some things about the way they manage Muir Woods, what would you ask them to do?", "What do you value most about your visit to Muir Woods?", and "What do you consider to be the most important qualities of Muir Woods?" Again, various responses were given to these questions (verbatim responses are recorded in Appendix C), and answers are grouped into similar categories and are presented in Tables 75 through 77. About a fourth of respondents (26.8%) had no suggestions for management (Table 75). The two most frequent suggestions for management were more information/education/interpretation/signs (10.4%) and more/closer parking (10.4%). Regarding what they value most about Muir Woods, about a quarter of visitors (22.2%) reported they value the experience of seeing the Redwoods and an old growth forest (Table 76). Other valued aspects of the park include it's natural beauty (12.7%), it's quiet and peacefulness (11.5%), and it's lack of development (10.9%). When asked about the most important qualities of Muir Woods, 30.6% noted the natural environment and it's protection and conservation for future generations (Table 77).

Table 75. Management improvements

Q 1c. If you could ask the National Park Service to change some things about the way they manage Muir Woods, what would you ask them to do?		
	Frequency	Percent
No suggestions/everything good	95	26.8
More information/education/interpretation/signs	37	10.4
More/closer parking	37	10.4
Better description of trails/more detailed map/more trail signs	23	6.5
Limit use	22	6.2
Eliminate exotic species	3	0.8
Shuttle bus system (to and from parking)	12	3.4
Ask people to limit noise/quiet areas	11	3.1
More trails	10	2.8
More staff	10	2.8
Water fountains/drinking water	6	1.7
Benches	6	1.7

Lower entrance fee/don't charge a fee	6	1.7
More/cleaner restrooms	6	1.7
Walking tours	5	1.4
More wildlife	4	1.1
Trash cans	3	0.8
Dust control	3	0.8
Fix trails that were closed	2	0.6
Picnic area	2	0.6
Audio tours	2	0.6
Reduce prices at gift shop/café	2	0.6
More handicapped parking	1	0.3
Camping area	1	0.3
Better trail maintenance	1	0.3
Miscellaneous	44	12.4

Number of responses = 355

Table 76. Value most

Q 1e. What do you value most about your visit to Muir Woods?		
	Frequency	Percent
See/experience the Redwoods/old growth forest (size, age)	110	22.2
Natural beauty	63	12.7
Quiet/peaceful/serene/pure	57	11.5
Lack of development/still natural/ knowing this area is(will be) preserved/knowing it is here	54	10.9
Enjoy nature/closer to nature/get outside/fresh air	48	9.7
Share area/trip with family/friends/memories	21	4.2
History	20	4.0
Gain ecological/environmental knowledge	19	3.8
Hike/walk/trails	17	3.4
Accessibility (location, easy trails, allows for short visit)	12	2.4
Majesty/cathedral-like character	11	2.2
Clean/well maintained	9	1.8
Appreciate natural environment	8	1.6
Opportunity to take photos	8	1.6
Low cost	5	1.0
Being able to touch the trees	3	0.6
Natural smells	2	0.4
Walk among the trees	2	0.4
Miscellaneous	26	5.3

Number of responses = 495

Table 77. Important qualities

Q 1f. What do you consider to be the most important qualities of Muir Woods?		
	Frequency	Percent
Natural environment/pristine/preservation for future generations/conservation	147	30.6
Redwoods/trees/old growth forest	83	17.3
Calm/serene/peaceful/quiet	43	8.9
Beauty/natural beauty/views	37	7.7
Accessibility	28	5.8
Not developed/undisturbed	23	4.8
Trails	20	4.1
Cleanliness	18	3.7
Educational value	17	3.5

Well maintained	6	1.2
Balance between preservation and public use	6	1.2
Information/education/interpretation	5	1.0
Sounds of nature	4	0.8
Friendly staff	2	0.4
Low cost	2	0.4
Wildlife	1	0.2
Well signed	1	0.2
Smells of nature	1	0.2
Miscellaneous	37	7.7

Number of responses = 481

In order to gauge the extent to which conditions at Muir Woods have changed, respondents were first asked whether they had visited Muir Woods before (Table 78) and second to briefly describe in an open-ended format what has changed both for the better and the worse since their last visit to Muir Woods. Various responses were given to these questions (verbatim responses are recorded in Appendix C), and answers are grouped into similar categories and are presented in Tables 79 and 80. About 40.0% of visitors had visited Muir Woods before. Repeat visitors recorded a variety of responses to the question as to what had changed for the better since their last visit. About forty percent of visitors reported more and improved trails and the presence of boardwalks. About 24.0% reported that nothing had changed since their last visit (Table 79). Similarly, visitors recorded a variety of responses to the question as to what had changed for the worse since their last visit. Just over 37.0% reported that nothing had changed for the worse. However, 28.2% of visitors felt that crowding is more of a problem now than when they last visited (Table 80).

Deleted: beach

Table 78. Previous visits

Q 1d. Have you visited Muir Woods National Monument before?		
	Frequency	Percent
Yes	157	40.1
No	235	59.9

N = 392

Table 79. Changed for the better

	Frequency	Percent
Better trails/boardwalks/more trails	48	40.7
Nothing/don't remember/haven't noticed	28	23.7
More information/education/interpretation/exhibits	8	6.8
Last visit too long ago	6	5.1
More benches/platforms	4	3.4
More/better restrooms	3	2.5
Cleaner	3	2.5
I visit too/very often	1	0.8
Water fountain/drinking water	1	0.8
Friendly/supportive staff	1	0.8
Miscellaneous	15	12.7

Number of responses = 118

Table 80. Changed for the worse

	Frequency	Percent
Nothing/didn't notice/about the same	29	37.2
More crowded	22	28.2
Boardwalks	3	3.8
Parkway	3	3.8
Some trails were closed	3	3.8
Lack of information/education/interpretation	2	2.6
Café/gift shop	2	2.6
Litter/trash	2	2.6
Don't remember	1	1.3
Entrance fee	1	1.3
Miscellaneous	10	12.8

Number of responses = 78

A related battery of questions measured the extent to which visitors felt selected issues were a problem (Table 81). Overall, most visitors rated most issues (except for finding a parking place) as "Not a Problem" or "Small Problem." Issues rated as the biggest problem were finding a parking place (mean = 2.2), too many people along trails (mean = 1.8), large groups of people along trails (mean = 1.8), visitors making too much noise (mean = 1.7), and lack of educational signs along trails (mean = 1.5).

Table 81. Potential problems at Muir Woods

Q 2. (Q 2.) To what extent do you think the following issues are problems?						
	N	Not a Problem (1)	Small Problem (2)	Big Problem (3)	Don't Know	Mean
a. Too many people along trails	399	34.8	47.6	16.8	0.8	1.8
b. Large groups of people along trails	397	40.1	40.6	17.6	1.8	1.8
c. Too many people at the gift shop	396	48.5	18.9	7.1	25.5	1.4
d. Too many people at the café	394	48.0	13.7	4.1	34.3	1.3
e. Finding a parking place	400	25.3	30.0	42.8	2.8	2.2
f. Finding your way to Muir Woods	391	85.9	10.5	1.0	2.6	1.1
g. Finding your way around Muir Woods	401	90.0	8.7	0.7	0.5	1.1
h. Visitors making too much noise	402	49.0	34.6	15.7	0.7	1.7
i. Too much noise from outside the park	397	88.4	7.3	0.3	4.0	1.1
j. People not obeying rules and regulations (e.g., walking off the trail, smoking)	398	68.6	18.8	6.8	5.8	1.3
k. Lack of supervision of school/youth groups	397	59.2	8.8	2.3	29.7	1.2

l. Lack of printed material about Muir Woods	399	66.9	23.1	5.5	4.5	1.4
m. Lack of educational talks and programs about Muir Woods	401	56.4	20.2	4.2	19.2	1.4
n. Lack of educational signs along trails	396	60.4	30.8	7.1	1.8	1.5
o. Waiting to use restrooms	398	70.4	13.8	3.5	12.3	1.2
p. Waiting to pay entrance fee	400	88.0	6.5	0	5.5	1.1
q. Unavailability of park rangers	397	58.2	19.4	3.5	18.9	1.3
r. Trails too highly developed	399	79.2	13.3	4.8	2.8	1.2
s. Too many facilities	401	86.3	7.5	1.2	5.0	1.1
t. Poor condition of trails	402	91.0	6.7	0.2	2.0	1.1
u. Litter along trails	401	89.0	7.5	1.2	2.2	1.1

Respondents were asked a series of questions regarding the study photographs showing a range of visitors at Muir Woods. Indicator variables included “persons per viewscape” (PPV) on a generic section of main trails at Muir Woods and PPV on a generic section of unpaved trails at Muir Woods. All respondents were asked to answer questions related to PPV on the main trail. However, only those respondents who had hiked on the unpaved trails were asked to answer questions related to PPV on unpaved trails. Study photographs are shown in Appendix B.

The first question asked respondents to rate the acceptability of the six photographs. Acceptability was measured using a nine-point Likert-type scale ranging from -4 (“Very Unacceptable”) to +4 (“Very Acceptable”). Zero represented the middle of this scale or the point of indifference. The second question in the series asked respondents to indicate the photograph that showed what they would prefer to see. A third question asked visitors to indicate which photograph showed the condition that would be so unacceptable that they would no longer visit Muir Woods. Further, respondents were given the opportunity to indicate that, “none of the photographs are so unacceptable that I would no longer visit this area.” The fourth question asked visitors to select the photograph representing the highest level of visitor use they thought the National Park Service should allow, or the point at which visitor use should be restricted. Additionally, visitors were given the opportunity to indicate none of the photographs show a high enough level of visitor use to restrict use or that use should not be restricted at all. The fifth question referred to existing conditions. Respondents were asked to indicate the photograph that most represented the condition they “typically saw today.” Findings from this series of questions are presented below for each of the two indicator variables.

PPV on Main Trails

Figure 2 and Table 82 indicate that smaller numbers of visitors are more acceptable than larger numbers of visitors and that aggregate evaluations of the photographs fall out of the acceptable range into the unacceptable range at 16.2 PPV. This value is referred to as "acceptability." Table 83 presents a breakdown of visitor preferences for PPV along the main trails at Muir Woods. Respondents preferred to see an average (mean) of 6.6 PPV. This value is referred to as "preference." As shown in Table 84, visitors reported that an average (mean) of 24.6 PPV at the woods would be so unacceptable that they would no longer visit the area. This value is referred to as "displacement." Visitors reported that the National Park Service should allow an average (mean) of 18.6 PPV (Table 85). This value is referred to as "management action." Additionally, approximately 6.0% of respondents reported that none of the photographs showed a high enough level of use to restrict visitors. Another 13.3% reported that visitor use should not be restricted at all. Results of the final question in the series are presented in Table 86. Respondents reported that they typically saw an average (mean) of 10.2 PPV in the woods on the day they were contacted for this study. This value is referred to as "existing conditions." The above results are summarized in Table 87.

Table 82. Acceptability (PPV on main trails: paved trails and boardwalk)

Q 3a. (Q 3a.) We would like to know how many people you think could use the main trails at Muir Woods without you feeling too crowded											
Photo number	N	-4	-3	-2	-1	0	1	2	3	4	Mean
Photo 1 (0)	390	2.8	0.3	1.3	0.8	2.8	1.8	2.8	3.3	84.1	3.4
Photo 2 (6)	387	1.0	0	0.8	0.5	3.4	6.5	15.0	22.2	50.6	3.0
Photo 3 (12)	376	2.1	1.6	5.3	8.5	11.4	17.3	19.7	21.3	12.8	1.4
Photo 4 (18)	377	10.6	10.1	17.0	16.2	16.2	10.1	9.3	7.4	3.2	-0.6
Photo 5 (24)	381	40.4	24.7	12.3	6.6	5.8	2.6	3.7	2.4	1.6	-2.4
Photo 6 (30)	379	73.6	9.0	4.2	4.2	2.1	2.6	2.4	0.3	1.6	-3.2

Table 83. Preference (PPV on main trails: paved trails and boardwalk)

Q 3b. (Q 3b.) Which photograph shows the level of use you would prefer to see along this trail?		
	Frequency	Percent
Photo 1 (0)	91	25.5
Photo 2 (6)	163	45.7
Photo 3 (12)	83	23.2
Photo 4 (18)	17	4.8
Photo 5 (24)	1	0.3
Photo 6 (30)	2	0.6

N = 357; Mean = 2.1 (6.6 PPV) ; Median = 2.0 (6 PPV)

Table 84. Displacement (PPV on main trails: paved trails and boardwalk)

Q 3c. (Q 3c.) Which photograph shows the level of use you think is so unacceptable you would not return to Muir Woods		
	Frequency	Percent
Photo 1 (0)	2	0.5
Photo 2 (6)	1	0.3
Photo 3 (12)	11	3.0
Photo 4 (18)	56	15.3
Photo 5 (24)	96	26.2
Photo 6 (30)	126	34.3
None of the photos are so unacceptable	75	20.4

N = 367; Mean = 5.1 (24.6 PPV); Median = 5.0 (24 PPV)

Table 85. Management Action (PPV on main trails: paved trails and boardwalk)

Q 3d. (Q 3d.) Which photograph shows the highest level of use you think the National Park Service should allow on this trail?		
	Frequency	Percent
Photo 1 (0)	1	0.3
Photo 2 (6)	9	2.4
Photo 3 (12)	56	14.9
Photo 4 (18)	148	39.3
Photo 5 (24)	59	15.6
Photo 6 (30)	31	8.2
None of the photographs show a high enough level of use to restrict visitors	23	6.1
Visitor use should not be restricted	50	13.3
Total	377	100.0

N = 377; Mean = 4.1 (18.6 PPV); Median = 4.0 (18 PPV)

Table 86. Typically seen (PPV on main trails: paved trails and boardwalk)

Q 3e. (Q 3e.) Which photograph looks most like the number of visitors you typically saw		
	Frequency	Percent
Photo 1 (0)	17	4.7
Photo 2 (6)	129	35.4
Photo 3 (12)	159	43.7
Photo 4 (18)	55	15.1
Photo 5 (24)	2	0.5
Photo 6 (30)	2	0.5

N = 364; Mean = 2.7 (10.2 PPV); Median = 3.0 (12.0 PPV)

Table 87. Summary (PPV on main trails: paved trails and boardwalk)

	N	Photo (PPV) Number (Mean)	Photo (PPV) Number (Median)
Acceptability		16.2 (PPV)	
Preference	357	2.1 (6.6)	2.0 (6.0)
Displacement	367	5.1 (24.6)	5.0 (24.0)
Management action	377	4.1 (18.6)	4.0 (18.0)
Typically seen	364	2.7 (10.2)	3.0 (12.0)

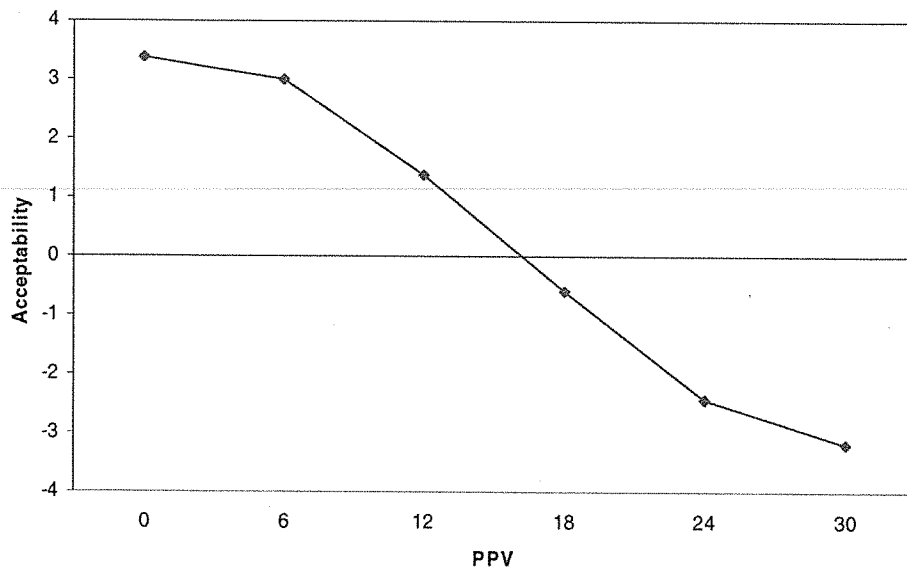


Figure 2. Social Norm Curve for Persons-Per-Viewscope (PPV) along paved trails and boardwalk

PPV on Unpaved Trails

Figure 3 and Table 88 indicate that smaller numbers of visitors are more acceptable than larger numbers of visitors and that aggregate evaluations of the photographs fall out of the acceptable range into the unacceptable range at 6.8 PPV. This value is referred to as "acceptability." Table 89 presents a breakdown of visitor preferences for PPV along unpaved trails at Muir Woods. Respondents preferred to see an average (mean) of 2.0 PPV. This value is referred to as "preference." As shown in Table 90, visitors reported that an average (mean) of 8.4 PPV at the woods would be so unacceptable that they would no longer visit the area. This value is referred to as "displacement." Visitors reported that the National Park Service should allow an average (mean) of 6.4 PPV (Table 91). This value is referred to as "management action." Additionally, approximately 11.0% of respondents reported that none of the photographs showed a high enough level of use to restrict visitors. Another 18.5% reported that visitor use should not be restricted at all. Results of the final question in the series are presented in Table 92. Respondents reported that they typically saw an average (mean) of 2.8 PPV in the woods on the day they were contacted for this study. This value is referred to as "existing conditions." The above results are summarized in Table 93.

Table 88. Acceptability (PPV on unpaved trails)

Q 4a. We would like to know how many people you think could use an unpaved trail without you feeling too crowded											
Photo number	N	-4	-3	-2	-1	0	1	2	3	4	Mean
Photo 1	120	0.8	0	0	0	0.8	1.7	0.8	0.8	95.0	3.8
Photo 2	119	0	0	0	0	0.8	2.5	8.4	22.7	65.5	3.5
Photo 3	118	1.7	0	1.7	0.8	5.9	16.1	16.9	29.7	27.1	2.4
Photo 4	118	2.5	2.5	8.5	15.3	10.2	22.9	15.3	16.1	6.8	0.8
Photo 5	117	15.4	20.5	12.8	16.2	10.3	9.4	6.8	3.4	5.1	-1.1
Photo 6	117	45.3	18.8	8.5	8.5	5.1	4.3	4.3	2.6	2.6	-2.3

Table 89. Preference (PPV on unpaved trails)

Q 4b. We would like to know how many people you think could use this type of trail without you feeling too crowded		
	Frequency	Percent
Photo 1 (0)	37	33.0
Photo 2 (2)	42	37.5
Photo 3 (4)	26	23.2
Photo 4 (6)	5	4.5
Photo 5 (8)	2	1.8
Photo 6 (10)	0	0

N = 112; Mean = 2.0 (2.0 PPV); Median = 2.0 (2.0 PPV)

Table 90. Displacement (PPV on unpaved trails)

Q 4c. Which photograph shows the level of use you would prefer to see along this trail?		
	Frequency	Percent
Photo 1 (0)	0	0
Photo 2 (2)	2	1.6
Photo 3 (4)	5	4.1
Photo 4 (6)	8	6.6
Photo 5 (8)	29	23.8
Photo 6 (10)	36	29.5
None of the photographs are so unacceptable	42	34.4

N = 122; Mean = 5.2 (8.4 PPV); Median = 5.0 (8 PPV)

Table 91. Management Action (PPV on unpaved trails)

Q 4d. Which photograph shows the level of use you think is so unacceptable you would not return to Muir Woods?		
	Frequency	Percent
Photo 1 (0)	0	0
Photo 2 (2)	1	0.8
Photo 3 (4)	19	16.0
Photo 4 (6)	33	27.7
Photo 5 (8)	22	18.5
Photo 6 (10)	9	7.6
None of the photographs show a high enough level of use to restrict visitors	13	10.9
Visitor use should not be restricted	22	18.5

N = 119; Mean = 4.2 (6.4 PPV); Median = 4.0 (6.0 PPV)

Table 92. Typically seen (PPV on unpaved trails)

Q 4e. Which photograph looks most like the number of visitors you typically saw along the trail		
---	--	--

today?		
	Frequency	Percent
Photo 1 (0)	19	16.8
Photo 2 (2)	54	47.8
Photo 3 (4)	25	22.1
Photo 4 (6)	9	8.0
Photo 5 (8)	5	4.4
Photo 6 (10)	1	0.9

N = 113; Mean = 2.4 (2.8 PPV); Median = 2.0 (2.0 PPV)

Table 93. Summary (PPV on unpaved trails)

	N	Photo (PPV) Number (Mean)	Photo (PPV) Number (Median)
Acceptability		6.8 PPV	
Preference	112	2.0 (2.0)	2.0 (2.0)
Displacement	122	5.2 (8.4)	5.0 (8.0)
Management action	119	4.2 (6.4)	4.0 (6.0)
Typically seen	113	2.4 (2.8)	2.0 (2.0)

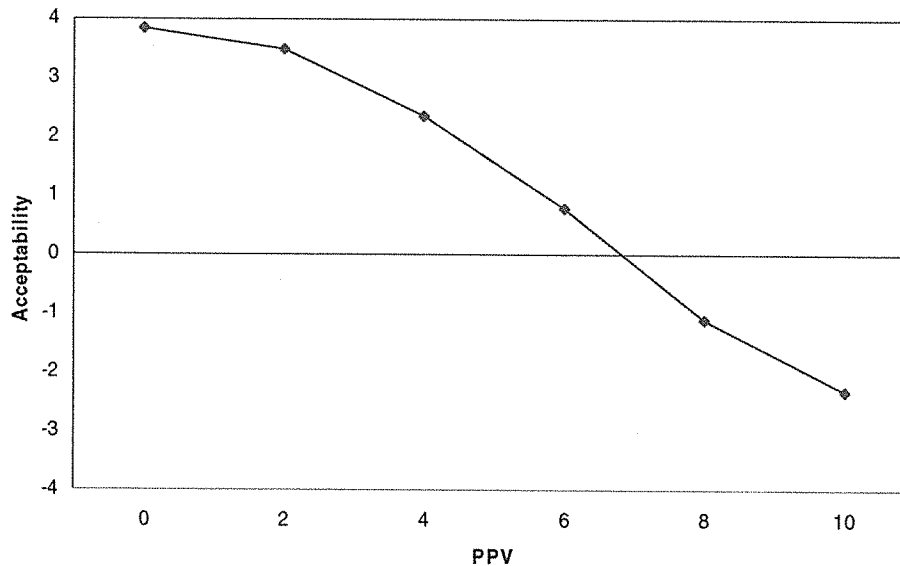


Figure 3. Social Norm Curve for Persons-Per-Viewscape (PPV) along unpaved trails

Finally, respondents were asked to report how crowded they felt at various locations using a response scale that ranged from 1 ("Not at all Crowded") to 9 ("Extremely Crowded"). In

general, respondents indicated feeling some level of crowding at all locations. The highest level of crowding was felt in the parking area (Table 94).

Table 94. Perceived crowding

Q 5. (Q 4.) How crowded did you feel?											
	N	1 Not at all crowded	2	3	4	5	6	7	8	9 Extremely crowded	Mean
Along the trails	385	22.9	24.4	22.9	10.9	6.5	7.8	3.4	1.0	0.3	3.0
In the parking area	385	13.8	11.4	11.7	7.0	5.2	12.2	8.1	15.1	15.6	5.2
Along the road to the park	387	21.4	26.4	15.0	9.0	4.9	9.0	6.7	4.7	2.8	3.4
In the Visitor Center	335	17.6	21.2	18.5	13.7	8.4	12.5	2.7	3.9	1.5	3.5
In the gift shop	325	14.8	13.5	20.0	12.3	8.0	13.2	7.1	8.0	3.1	4.1
In the café	287	16.7	17.1	20.2	11.5	8.7	12.5	4.9	4.5	3.8	3.8
Overall	375	12.0	21.1	20.0	17.1	10.4	14.4	3.2	1.6	0.3	3.6

Visitor Attitudes about Park Management

Visitors were asked several questions regarding their attitudes toward selected park management issues. The first question asked visitors to rate selected facilities/services in order to gauge their perceptions about the adequacy of these facilities/services. Results are shown in Table 95. Overall, most visitors rated all facilities/areas as "Adequate" to "Good." Another question related to facilities and services asked respondents to indicate how important/unimportant certain facilities or services were to their enjoyment and appreciation of Muir Woods. Overall, respondents indicated that shelter from weather, ability to purchase hot/cold drinks, ability to purchase light snacks and ability to purchase lunch were generally not important to their enjoyment and appreciation of Muir Woods (Table 96).

Table 95. Rating of facilities and services at Muir Woods

Q 7. (Q 6.) How would you rate the following facilities and services at Muir Woods?							
	N	Very Poor (1)	Poor (2)	Adequate (3)	Good (4)	Excellent (5)	Mean
a. Amount of information (e.g., educational signs/displays, brochures)	380	1.1	9.7	45.8	30.5	12.9	3.6
b. Quality of information (e.g., educational signs/displays, brochures)	380	0.3	6.6	39.5	38.7	15.0	3.6
c. Trail signage (directions, distances)	385	1.8	7.3	30.1	41.6	19.2	3.7
d. Number of restrooms	354	1.7	8.2	50.6	31.1	8.5	3.4
e. Cleanliness of restrooms	334	8.4	10.5	40.1	28.7	12.3	3.3
f. Availability of rangers/staff	352	4.5	20.5	43.2	25.6	6.3	3.1
g. Helpfulness of rangers/staff	314	1.3	3.8	42.4	37.6	15.0	3.6
h. Availability of water	352	2.3	13.4	48.0	28.4	8.0	3.3
i. Availability of food	322	1.2	7.5	53.1	29.8	8.4	3.4
j. Availability of seating along trails	371	1.3	9.4	31.8	36.1	21.3	3.7

Table 96. Importance of facilities/services

Q 15. (Q 14.) How important were the following facilities or services to your enjoyment and appreciation of Muir Woods?							
	N	Very Unimportant (-2)	Unimportant (-1)	Neither Unimportant nor Important (0)	Important (+1)	Very Important (+2)	Mean
a. Shelter from the weather	381	16.8	21.8	43.3	14.7	3.4	-0.3
b. Opportunity to purchase cold and/or warm drinks	383	11.0	16.2	30.0	34.5	8.4	0.1

c. Opportunity to purchase light snacks	383	13.3	14.1	32.9	32.9	6.8	0.1
d. Opportunity to purchase lunch or other meal	380	16.8	16.8	35.5	23.7	7.1	-0.1

The next question addressed visitor support toward selected management alternatives.

Visitors were asked to indicate the extent to which they would support/oppose management alternatives related to visitor use, parking, appropriate behavior, education/information and administrative building at the park. A majority (75.0%) of visitors indicated they would support or strongly support enforcing rules about appropriate behavior at the park (Table 97). One half of respondents (50.8%) reported that they oppose or strongly oppose requiring a reservation to park at Muir Woods during busy periods. Furthermore, 50.1% of respondents indicated they would oppose or strongly oppose charging a modest fee for parking (no more than \$10.00) at Muir Woods (in addition to the entrance fee) to help support a visitor shuttle bus system.

Table 97. Level of support/opposition toward management alternatives

Q 13. (Q 12.) Please indicate the extent to which you would support or oppose these suggestions							
	N	Strongly Oppose (-2)	Oppose (-1)	Neither Oppose nor Support (0)	Support (+1)	Strongly Support (+2)	Mean
a. Limit the number of visitors to reduce crowding	380	8.2	21.1	32.6	31.3	6.8	0.1
b. Limit the number of large groups of visitors (over 10 people per group)	379	5.8	13.7	24.5	37.5	18.5	0.5
c. Require a reservation to park at Muir Woods during busy periods	378	24.3	26.5	25.1	20.6	3.4	-0.5
d. Restrict parking at Muir Woods and provide visitor access by shuttle bus (with a fee of no more than \$5.00) from a visitor center on Highway 101 during busy periods	375	11.2	17.9	21.3	35.2	14.4	0.2
e. Charge a modest fee for parking (no more than \$10.00) at Muir Woods (in addition to the entrance fee) to help support a visitor shuttle bus system	377	23.3	26.8	23.3	19.6	6.9	-0.4

f. Educate visitors about appropriate behavior (e.g., limit noise, stay on trails)	379	2.6	5.0	19.5	44.1	28.8	0.9
g. Enforce rules about appropriate behavior (e.g., limit noise, stay on trails)	379	2.9	3.4	18.7	43.3	31.7	1.0
h. Reduce the number or length of trails	376	46.8	26.1	23.7	1.6	1.9	-1.1
i. Provide more information/education about natural history of the area	376	1.1	1.9	25.5	50.3	21.3	0.9
j. Provide more information/education about cultural history of the area	373	0.8	1.6	28.2	48.5	20.9	0.9
k. Remove some buildings from Muir Woods (e.g., administrative offices)	376	10.4	25.8	57.4	3.7	2.7	-0.4

IV. COMPUTER SIMULATION MODEL

(Development of the computer simulation model of visitor use at Muir Woods National Monument is on-going and will be presented at the February, 2004 workshop. The model will be used to estimate the maximum daily use levels of Muir Woods without violating selected crowding-related standards of quality)

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APPENDIX A: Study Questionnaires

~~~~~Section Break (Next Page)~~~~~

MUIR BEACH VISITOR SURVEY

2003

<sp>

Date:

Number:

Time:

Attendant:

Weather:

Warm Cloudy

Cool Foggy

Sunny Rain

Partly sunny

OMB Approval #1024-0224 (NPS #03-

047)

Expiration Date: 02/29/2004

MUIR BEACH VISITOR SURVEY

The Golden Gate National Recreation Area (GGNRA) was established to protect the "outstanding natural, historic, scenic, and recreational values" of these lands, and to "provide for the maintenance of needed recreational open space necessary to the urban environment." Located at the mouth of Redwood Creek, Muir Beach is an important estuary system and supports several threatened fish species such as coho salmon and steelhead. It is also a popular destination within the GGNRA, attracting nearly a half million visitors each year. The National Park Service is currently developing plans to improve the condition of natural and cultural resources at Muir Beach, while providing suitable visitor access to this site. The information you provide in this survey will help the National Park Service understand how visitors use this site and how you would like this site to be managed in the future.

1. How many people (including you) are in your group today?

Number of people:

... [1]

APPENDIX A: Study Questionnaires

Section Break (Next Page)

MUIR BEACH VISITOR SURVEY 2003



Date: \_\_\_\_\_

Number: \_\_\_\_\_

Time: \_\_\_\_\_

Attendant: \_\_\_\_\_

Weather:     \_\_\_ Warm  
              \_\_\_ Cool  
              \_\_\_ Sunny

              \_\_\_ Cloudy  
              \_\_\_ Foggy  
              \_\_\_ Rain

\_\_\_\_\_ Partly sunny

OMB Approval #1024-0224 (NPS #03-047)

Expiration Date: 02/29/2004

## MUIR BEACH VISITOR SURVEY

The Golden Gate National Recreation Area (GGNRA) was established to protect the “outstanding natural, historic, scenic, and recreational values” of these lands, and to “provide for the maintenance of needed recreational open space necessary to the urban environment.” Located at the mouth of Redwood Creek, Muir Beach is an important estuary system and supports several threatened fish species such as coho salmon and steelhead. It is also a popular destination within the GGNRA, attracting nearly a half million visitors each year. The National Park Service is currently developing plans to improve the condition of natural and cultural resources at Muir Beach, while providing suitable visitor access to this site. The information you provide in this survey will help the National Park Service understand how visitors use this site and how you would like this site to be managed in the future.

1. How many people (including you) are in your group today?

Number of people: \_\_\_\_\_

2.a. How would you describe your personal group? (Circle one number.)

1. Family
2. Friends
3. Family and friends
4. Organized group or club
5. School/educational group
6. Other (Please specify: \_\_\_\_\_)

b. Is your personal group part of a commercial tour in the park today? (Circle one number.)

1. Yes
2. No

3.a. Have you visited Muir Beach before? (Circle one number.)

1. Yes
2. No (Skip to question 4.)

b. Approximately how many times have you visited Muir Beach before this trip?



Number of previous visits: \_\_\_\_\_

4.a. Do you live in the United States? (Circle one number.)

1. Yes (What is your zip code? \_\_\_\_\_)
2. No (What country do you live in? \_\_\_\_\_)  
(Skip to question 5.)

b. Are you a resident of the community of Muir Beach? (Circle one number.)

1. Yes (Skip to question 5.)
2. No

c. Are you a resident of or a visitor at Green Gulch Farm? (Circle one number.)

1. Yes
2. No

5. We would like to know what added to and/or detracted from the quality of your visit to Muir

Beach today and what you value most about Muir Beach.

a. What did you enjoy most about your visit?

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b. What did you enjoy least about your visit?

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c. If you could ask the National Park Service to change some things about the way they manage Muir Beach, what would you ask them to do?

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Have you visited Muir Beach before?

1. Yes\_\_\_\_\_

2. No\_\_\_\_\_ (skip to question 5e.)

Please note any things you think have changed for the better since your last visit.

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Please note any things you think have changed for the worse since your last visit.

e. What do you value most about your visit to Muir Beach?

f. What do you consider to be the most important qualities of Muir Beach?

6. Some people have suggested that the following issues might be problems at Muir Beach. To

what extent do you think the following issues are problems? (Circle one number for each item.)

|                                                                                        | Not a Problem | Small Problem | Big Problem | Don't Know |
|----------------------------------------------------------------------------------------|---------------|---------------|-------------|------------|
| a. Too many people on the beach                                                        | 1             | 2             | 3           | DK         |
| b. Too many people along trails                                                        | 1             | 2             | 3           | DK         |
| c. Large groups of people along trails                                                 | 1             | 2             | 3           | DK         |
| d. Finding a parking place                                                             | 1             | 2             | 3           | DK         |
| e. Finding your way to Muir Beach                                                      | 1             | 2             | 3           | DK         |
| f. Finding your way around Muir Beach                                                  | 1             | 2             | 3           | DK         |
| g. Visitors making too much noise                                                      | 1             | 2             | 3           | DK         |
| h. Too much noise from outside the park                                                | 1             | 2             | 3           | DK         |
| i. Lack of information about Muir Beach                                                | 1             | 2             | 3           | DK         |
| j. Waiting to use restrooms                                                            | 1             | 2             | 3           | DK         |
| k. Dogs off leash                                                                      | 1             | 2             | 3           | DK         |
| l. Lack of picnicking facilities                                                       | 1             | 2             | 3           | DK         |
| m. Lack of drinking water                                                              | 1             | 2             | 3           | DK         |
| n. Not enough fire rings                                                               | 1             | 2             | 3           | DK         |
| o. Lack of public transit access                                                       | 1             | 2             | 3           | DK         |
| p. Gate at entrance opens too late for early morning visitors                          | 1             | 2             | 3           | DK         |
| q. Winter flooding on Pacific Way (the road leading from Highway 1 to the parking lot) | 1             | 2             | 3           | DK         |

7. We would like to know how many people you think could use the beach at Muir Beach

without you feeling too crowded. To help judge this, we have a series of photographs that show different numbers of people at the beach. Please look at the photographs on **Poster 1**.

- a. Please rate each photograph by indicating how acceptable you think it is based on the number of people shown. A rating of “-4” means the number of people is very unacceptable, and a rating of “+4” means the number of people is very acceptable.  
(Circle one number for each photograph.)

|         | Very Unacceptable |    |    |    |   | Very Acceptable |    |    |    |  |
|---------|-------------------|----|----|----|---|-----------------|----|----|----|--|
| Photo 1 | -4                | -3 | -2 | -1 | 0 | +1              | +2 | +3 | +4 |  |
| Photo 2 | -4                | -3 | -2 | -1 | 0 | +1              | +2 | +3 | +4 |  |

|         |    |    |    |    |   |    |    |    |    |
|---------|----|----|----|----|---|----|----|----|----|
| Photo 3 | -4 | -3 | -2 | -1 | 0 | +1 | +2 | +3 | +4 |
| Photo 4 | -4 | -3 | -2 | -1 | 0 | +1 | +2 | +3 | +4 |
| Photo 5 | -4 | -3 | -2 | -1 | 0 | +1 | +2 | +3 | +4 |
| Photo 6 | -4 | -3 | -2 | -1 | 0 | +1 | +2 | +3 | +4 |

b. Which photograph shows the level of use you would prefer to see at the beach?

Photo number: \_\_\_\_\_

c. Which photograph shows the level of use you think is so unacceptable that you would not return to Muir Beach? (If none of the photographs represent this condition, you may indicate that.)

Photo number: \_\_\_\_\_

OR

☐ None of the photographs are so unacceptable that I would not return to Muir Beach.

d. Which photograph shows the highest level of use you think the National Park Service should allow on the beach? In other words, at what point should visitors be restricted from using the beach? (If use should not be restricted at any point represented by the photographs, or not restricted at all, you may indicate that.)

Photo number: \_\_\_\_\_

OR

☐ None of the photographs show a high enough level of use to restrict visitors from using the beach.

OR

☐ Visitor use should not be restricted.

e. Which photograph looks most like the number of visitors you typically saw at the beach today?

Photo number: \_\_\_\_\_

8. How crowded did you feel at Muir Beach today? (Circle one number for each location that you visited.)

|                               | Not at all Crowded |   | Slightly Crowded |   |   | Moderately Crowded |   | Extremely Crowded |   |
|-------------------------------|--------------------|---|------------------|---|---|--------------------|---|-------------------|---|
| a. At the beach               | 1                  | 2 | 3                | 4 | 5 | 6                  | 7 | 8                 | 9 |
| b. Along the trails           | 1                  | 2 | 3                | 4 | 5 | 6                  | 7 | 8                 | 9 |
| c. In the parking area        | 1                  | 2 | 3                | 4 | 5 | 6                  | 7 | 8                 | 9 |
| d. Along the road to the park | 1                  | 2 | 3                | 4 | 5 | 6                  | 7 | 8                 | 9 |
| e. Overall                    | 1                  | 2 | 3                | 4 | 5 | 6                  | 7 | 8                 | 9 |

9. Which of the following activities did you participate in today? (Circle one number for each item.)

|                                                                        | Yes | No |
|------------------------------------------------------------------------|-----|----|
| a. Picnicking                                                          | 1   | 2  |
| b. Lying on the beach                                                  | 1   | 2  |
| c. Walking on the beach                                                | 1   | 2  |
| d. Hiking on a trail                                                   | 1   | 2  |
| e. Walking your dog                                                    | 1   | 2  |
| f. Horseback riding                                                    | 1   | 2  |
| g. Surfing                                                             | 1   | 2  |
| h. Hiking to Muir Beach from outside the park or from other park sites | 1   | 2  |
| i. Bicycling                                                           | 1   | 2  |
| j. Viewing wildlife                                                    | 1   | 2  |

k.. Other (Please specify: \_\_\_\_\_)

10. Which of the following facilities/areas did you visit/use today? (Circle one number for each item.)

|                       | Yes | No |
|-----------------------|-----|----|
| a. The beach          | 1   | 2  |
| b. The picnic area    | 1   | 2  |
| c. The restroom       | 1   | 2  |
| d. Green Gulch Trail  | 1   | 2  |
| e. Coyote Ridge Trail | 1   | 2  |

|                                          | Yes | No |
|------------------------------------------|-----|----|
| f. Coast Trail                           | 1   | 2  |
| g. Middle Green Gulch Trail              | 1   | 2  |
| h. Dias Ridge Fireroad                   | 1   | 2  |
| i. Redwood Creek Trail                   | 1   | 2  |
| j. Levee Road Trail                      | 1   | 2  |
| k. Horse facilities at Golden Gate Dairy | 1   | 2  |
| l. Green Gulch Farm retreat facilities   | 1   | 2  |
| m. Tennessee Valley                      | 1   | 2  |
| n. Muir Woods National Monument          | 1   | 2  |
| o. Mt. Tamalpais State Park              | 1   | 2  |

11.a. Did you experience any conflicts today with visitors participating in other recreation

activities at Muir Beach or on trails around Muir Beach? (Circle one number.)

1. Yes
2. No (Skip to question 12.)

b. Briefly describe the conflict.

---



---

12. How would you rate the following facilities and services at Muir Beach? (Circle one number for each item. If you did not use a facility or service, please leave it blank.)

|                                                                         | Very Poor | Poor | Adequate | Good | Excellent |
|-------------------------------------------------------------------------|-----------|------|----------|------|-----------|
| a. Amount of information (e.g., educational signs/displays, brochures)  | 1         | 2    | 3        | 4    | 5         |
| b. Quality of information (e.g., educational signs/displays, brochures) | 1         | 2    | 3        | 4    | 5         |
| c. Trails and trail connections                                         | 1         | 2    | 3        | 4    | 5         |
| d. Trail signage (directions, distances)                                | 1         | 2    | 3        | 4    | 5         |
| e. Number of restrooms                                                  | 1         | 2    | 3        | 4    | 5         |
| f. Type of restrooms                                                    | 1         | 2    | 3        | 4    | 5         |

g. Cleanliness of restrooms      1              2              3              4              5

h. Availability of picnic  
tables                              1              2              3              4              5

13. Which of the following sources of information did you use to plan your visit to Muir Beach? (Circle all numbers that apply.)

1. Guide book/map
2. Internet
3. Commercial tour company/travel agent
4. Previous visit
5. Friend or relative
6. Contacted National Park Service
7. Other (Please specify:

\_\_\_\_\_)

14. How did you get to Muir Beach today? (Circle all numbers that apply.)

1. Car/truck/van/SUV
2. Camper/RV
3. Tour bus
4. Public bus
5. Ferry
6. Taxi
7. Walked/hiked/jogged
8. Biked
9. Motorcycle
10. Other (Please specify:

\_\_\_\_\_)

15. How long did you stay (or do you plan to stay) at Muir Beach today? (Circle one number.)

1. Less than 1 hour
2. 1 to 2 hours
3. 2 to 3 hours
4. More than 3 hours

16. Do you or does anyone in your group have any of the following equipment that you have

brought along for today's trip? (Circle all numbers that apply.)

1. Ice chest/cooler/picnic basket
2. Lawn chairs/beach chairs
3. Beach umbrella/beach gear
4. Stroller
5. Bicycle

6. Wheelchair
7. Surfboard/windsurfer/sailboard
8. Wetsuit/SCUBA gear
9. Kayak/sailboat
10. Camping gear/hiking gear
11. Other (Please specify: \_\_\_\_\_)

17. The following ideas have been suggested to change the way in which Muir Beach is managed. Please indicate the extent to which you would oppose or support these suggestions. (Circle one number for each item.)

|                                                                                                                                                                           | Strongly Oppose | Oppose | Neither Oppose nor Support | Support | Strongly Support |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------|----------------------------|---------|------------------|
| a. Charge a modest fee (no more than \$5.00) to park at Muir Beach (to discourage crowding and help support a public transportation system)                               | -2              | -1     | 0                          | +1      | +2               |
| b. Charge a modest fee (no more than \$5.00) to park at Muir Beach during <u>busy times only</u> (to discourage crowding and help support a public transportation system) | -2              | -1     | 0                          | +1      | +2               |
| c. Provide more education about natural/cultural history of the area                                                                                                      | -2              | -1     | 0                          | +1      | +2               |
| d. Provide more opportunities for people to volunteer for conservation projects at Muir Beach                                                                             | -2              | -1     | 0                          | +1      | +2               |



18. The parking lot at Muir Beach is a convenience to many visitors, but its current size and

configuration may have some negative environmental effects, such as impeding the natural flow of Redwood Creek to the ocean. Given this information, please indicate the

extent to which you would oppose or support the following management alternatives.

(Circle one number for each item.)

|                                                                                                                                                | <b>Strongly Oppose</b> | <b>Oppose</b> | <b>Neither Oppose nor Support</b> | <b>Support</b> | <b>Strongly Support</b> |
|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|-----------------------------------|----------------|-------------------------|
| a. Reduce the size of the parking lot at the beach and provide shuttle bus service to meet additional parking demand                           | -2                     | -1            | 0                                 | +1             | +2                      |
| b. Reduce the size of the parking lot at the beach and provide an overflow parking lot up to one half mile away (such as near the Pelican Inn) | -2                     | -1            | 0                                 | +1             | +2                      |
| c. Maintain the current size of the parking lot at the beach, but alter its configuration to minimize its potential environmental impacts      | -2                     | -1            | 0                                 | +1             | +2                      |
| d. Increase the size and alter the configuration of the current parking lot                                                                    | -2                     | -1            | 0                                 | +1             | +2                      |
| e. Move all parking to a lot up to one half mile from the beach (such as near the Pelican Inn)                                                 | -2                     | -1            | 0                                 | +1             | +2                      |

19a. In what year were you born?

Year born: \_\_\_\_\_

b. What is your gender? (Circle one number.)

1. Male
2. Female

c. What is the highest level of formal education you have completed? (Circle one number.)

1. Less than high school
2. High school graduate
3. Vocational/trade school certificate
4. Some college
5. Two-year college degree
6. Four-year college degree
7. Graduate degree

d. In what ethnicity and race would you place yourself?

Ethnicity: (Circle one number.)

1. Hispanic or Latino
2. Not Hispanic or Latino

Race: (Circle all numbers that apply.)

1. American Indian or Alaska Native
2. Asian
3. Black or African American
4. Native Hawaiian or other Pacific Islander
5. White

20. Did you or any members of your group have any special access needs? (Circle one number.)

1. Yes (Briefly explain:

\_\_\_\_\_

\_\_\_\_\_)

2. No

Thank you for your help with this survey!

**PRIVACY ACT and PAPERWORK REDUCTION ACT statement:**

16 U.S.C. 1a-7 authorizes collection of this information. This information will be used by park managers to better serve the public. Response to this request is voluntary. No action may be taken against you for refusing to supply the information requested. Your name is requested for follow-up mailing purposes only. When analysis of the questionnaire is completed, all name and address files will be destroyed. Thus the permanent data will be anonymous. Data collected through visitor surveys may be disclosed to the Department of Justice when relevant to litigation or anticipated litigation, or to appropriate Federal, State, local or foreign agencies responsible for investigating or prosecuting a violation of law. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. **BURDEN ESTIMATE STATEMENT:** Public reporting burden for this form is estimated to average 10 minutes per response. Direct comments regarding the burden estimate or any other aspect of this form to Information Collection Clearance Officer, WASO Administration Program Center, National Park Service, 1849 C Street, N.W., Washington, D.C. 20240.

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MUIR WOODS ENTRANCE QUESTIONNAIRE

-----Page Break-----

MUIR WOODS NATIONAL MONUMENT

Visitor Survey 2003



Date: _____

Number: _____

Time: _____

Attendant: _____

Weather:

_____ Warm

_____ Cool

_____ Sunny

_____ Partly sunny

_____ Cloudy

_____ Foggy

_____ Rain

ENTRANCE QUESTIONNAIRE

In 1908 Muir Woods was designated a National Monument to protect this redwood forest. Nearly a million people now visit Muir Woods each year. The National Park Service is working to protect natural and historical resources in the monument and identify ways to preserve or enhance the quality of the visitor experience. The information you provide in this questionnaire will help the National Park Service understand how visitors use and value Muir Woods and identify actions to help preserve this important National Monument.

1. How many people (including you) are in your group today?

Number of people: _____

2. a. How would you describe your personal group? (Circle one number.)

1. Family
2. Friends
3. Family and friends
4. Organized group or club
5. School/educational group
6. Other (Please specify: _____)

- b. Is your personal group part of a commercial tour in the park today? (Circle one number.)

1. Yes
2. No

- 3.a. Have you visited Muir Woods before? (Circle one number.)

1. Yes
2. No (Skip to question 4.)

- b. Approximately how many times have you visited Muir Woods before this trip?

Number of previous visits: _____

4. Do you live in the United States? (Circle one number.)

1. Yes (What is your zip code? _____)
2. No (What country do you live in? _____)

5. We would like to know where you walk/hike in Muir Woods today. Using map given to you by the attendant, please record where you walk/hike today, the beginning and ending times of your walk/hike, and where you stop or linger along your route for five minutes or more. The sample map shows the symbols you should use to mark your map. Please give the completed map to me (or another uniformed attendant) when you finish your walk/hike and leave the area.

PRIVACY ACT and PAPERWORK REDUCTION ACT statement:

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-----Section Break (Next Page)-----

MUIR WOODS EXIT QUESTIONNAIRE

-----Page Break-----

MUIR WOODS NATIONAL MONUMENT

Visitor Survey 2003



Date: _____

Number: _____

Time: _____

Attendant: _____

BW/ PT

Weather:

_____ Warm

_____ Cool

_____ Sunny

_____ Partly sunny

_____ Cloudy

_____ Foggy

_____ Rain

OMB Approval #1024-0224 (NPS #03-046)

Expiration Date: 02/29/2004

EXIT QUESTIONNAIRE

In 1908 Muir Woods was designated a National Monument to protect this redwood forest. Nearly a million people now visit Muir Woods each year. The National Park Service is working to protect natural and historical resources in the monument and identify ways to preserve or enhance the quality of the visitor experience. The information you provide in this questionnaire will help the National Park Service understand how visitors use and value Muir Woods and identify actions to help preserve this important National Monument.

1. We would like to know what added to and/or detracted from the quality of your visit to Muir

Woods today and what you value most about Muir Woods.

a. What did you enjoy most about your visit?

b. What did you enjoy least about your visit?

c. If you could ask the National Park Service to change some things about the way they manage Muir Woods, what would you ask them to do?

Have you visited Muir Woods National Monument before?

1. Yes_____

2. No_____ (skip to question 1e.)

Please note any things you think have changed for the better since your last visit.

—

Please note any things you think have changed for the worse since your last visit.

—

e. What do you value most about your visit to Muir Woods?

—

—

f. What do you consider to be the most important qualities of Muir Woods?

—

—

2. Some people have suggested that the following issues might be problems at Muir Woods. To

what extent do you think the following issues are problems? (Circle one number for each item.)

| | Not a
Problem | Small
Problem | Big
Problem | Don't
Know |
|--|------------------|------------------|----------------|---------------|
| a. Too many people along trails | 1 | 2 | 3 | DK |
| b. Large groups of people along trails | 1 | 2 | 3 | DK |
| c. Too many people at the gift shop | 1 | 2 | 3 | DK |
| d. Too many people at the café | 1 | 2 | 3 | DK |
| e. Finding a parking place | 1 | 2 | 3 | DK |

| | | | | |
|--|---|---|---|----|
| f. Finding your way to Muir Woods | 1 | 2 | 3 | DK |
| g. Finding your way around Muir Woods | 1 | 2 | 3 | DK |
| h. Visitors making too much noise | 1 | 2 | 3 | DK |
| i. Too much noise from outside the park | 1 | 2 | 3 | DK |
| j. People not obeying rules and regulations (e.g., walking off the trail, smoking) | 1 | 2 | 3 | DK |
| k. Lack of supervision of school/youth groups | 1 | 2 | 3 | DK |
| l. Lack of printed material about Muir Woods | 1 | 2 | 3 | DK |
| m. Lack of educational talks and program about Muir Woods | 1 | 2 | 3 | DK |
| n. Lack of educational signs along trails | 1 | 2 | 3 | DK |
| o. Waiting to use restrooms | 1 | 2 | 3 | DK |
| p. Waiting to pay entrance fee | 1 | 2 | 3 | DK |
| q. Unavailability of park rangers | 1 | 2 | 3 | DK |
| r. Trails too highly developed | 1 | 2 | 3 | DK |
| s. Too many facilities | 1 | 2 | 3 | DK |
| t. Poor condition of trails | 1 | 2 | 3 | DK |
| u. Litter along trails | 1 | 2 | 3 | DK |

3. We would like to know how many people you think could use the trails at Muir Woods

without you feeling too crowded. To help judge this, we have a series of photographs that show different numbers of people along a section of the main trail. Please look at the photographs on **Poster 1**.

- a. Please rate each photograph by indicating how acceptable you think it is based on the number of people shown. A rating of “-4” means the number of people is very unacceptable, and a rating of “+4” means the number of people is very acceptable.

(Circle

one number for each photograph.)

| | Very Unacceptable | | | | | Very Acceptable | | | | |
|---------|-------------------|----|----|----|---|-----------------|----|----|----|--|
| Photo 1 | -4 | -3 | -2 | -1 | 0 | +1 | +2 | +3 | +4 | |
| Photo 2 | -4 | -3 | -2 | -1 | 0 | +1 | +2 | +3 | +4 | |
| Photo 3 | -4 | -3 | -2 | -1 | 0 | +1 | +2 | +3 | +4 | |
| Photo 4 | -4 | -3 | -2 | -1 | 0 | +1 | +2 | +3 | +4 | |
| Photo 5 | -4 | -3 | -2 | -1 | 0 | +1 | +2 | +3 | +4 | |
| Photo 6 | -4 | -3 | -2 | -1 | 0 | +1 | +2 | +3 | +4 | |

- b. Which photograph shows the level of use you would prefer to see along this trail?

Photo number: _____

- c. Which photograph shows the level of use you think is so unacceptable that you would not return to Muir Woods? (If none of the photographs represent this condition, you may indicate that.)

Photo number: _____

OR

☐ None of the photographs are so unacceptable that I would not return to Muir Woods.

- d. Which photograph shows the highest level of use you think the National Park Service should allow on this trail? In other words, at what point should visitors be restricted from using this trail? (If use should not be restricted at any point represented by the photographs, or not restricted at all, you may indicate that.)

Photo number: _____

OR

☐ None of the photographs show a high enough level of use to restrict visitors from using this trail.

OR

☐ Visitor use should not be restricted

- e. Which photograph looks most like the number of visitors you typically saw along this trail today?

Photo number: _____

4. How crowded did you feel at Muir Woods today? (Circle one number for each location you visited.)

| | Not at all Crowded | | Slightly Crowded | | | Moderately Crowded | | Extremely Crowded | |
|---------------------|--------------------|---|------------------|---|---|--------------------|---|-------------------|---|
| a. Along the trails | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

| | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|
| b. In the parking area | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| c. Along the road to the park | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| d. In the Visitor Center | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| e. In the gift shop | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| f. In the cafe | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| g. Overall | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

5. Which of the following facilities/areas did you visit today? (Circle one number for each item.)

| | Yes | No |
|-------------------|-----|----|
| a. Visitor Center | 1 | 2 |
| b. Cafe | 1 | 2 |
| c. Gift shop | 1 | 2 |
| d. Restrooms | 1 | 2 |

6. How would you rate the following facilities and services at Muir Woods? (Circle one number for each item. If you did not use a facility or service, please leave it blank.)

| | Very Poor | Poor | Adequate | Good | Excellent |
|---|-----------|------|----------|------|-----------|
| a. Amount of information (e.g., educational signs/displays, brochures) | 1 | 2 | 3 | 4 | 5 |
| b. Quality of information (e.g., educational signs/displays, brochures) | 1 | 2 | 3 | 4 | 5 |
| c. Trail signage (directions, distances) | 1 | 2 | 3 | 4 | 5 |
| d. Number of restrooms | 1 | 2 | 3 | 4 | 5 |
| e. Cleanliness of restrooms | 1 | 2 | 3 | 4 | 5 |
| f. Availability of rangers/staff | 1 | 2 | 3 | 4 | 5 |
| | Very Poor | Poor | Adequate | Good | Excellent |
| g. Helpfulness of rangers/staff | 1 | 2 | 3 | 4 | 5 |

| | | | | | |
|--|---|---|---|---|---|
| h. Availability of water | 1 | 2 | 3 | 4 | 5 |
| i. Availability of food | 1 | 2 | 3 | 4 | 5 |
| j. Availability of seating
along trails | 1 | 2 | 3 | 4 | 5 |

7. Which of the following sources of information did you use to plan your visit to Muir Woods?

(Circle all numbers that apply.)

1. Guide book/map
2. Park website (<http://www.nps.gov/muwo/index.htm>)
3. Other websites
4. Highway signs
5. Commercial tour company/travel agent
6. Previous visit
7. Friend or relative
8. Contacted National Park Service
9. Other (Please specify: _____)

8.a. The trails in Muir Woods have been developed in three ways as shown in the photographs on **Poster 3**: A) asphalt paving with split rail fences, and B) raised boardwalks with an elevated edge, and C) primitive, compacted dirt paths. Which of these do you prefer?

(Circle one number.)

1. Prefer A
2. Prefer B
3. Prefer C

b. Briefly, why do you prefer A, B or C?

9. The following visitor facilities and services have been suggested for Muir Woods and the surrounding area. Please indicate if you think you might use these facilities and services if they were offered. (Circle one number for each item.)

| | Yes,
likely | Don't
know | No,
unlikely |
|---|----------------|---------------|-----------------|
| a. Bicycle rentals (for use <u>outside</u> Muir Woods) | 1 | 2 | 3 |
| b. Long (2 or more hours) guided hikes | 1 | 2 | 3 |
| | Yes,
likely | Don't
know | No,
unlikely |
| c. An audio tour of Muir Woods (to be used as you walk through the woods) | 1 | 2 | 3 |
| d. Half to one-day field workshops/seminars on natural and/or cultural history at Muir Woods and the surrounding area | 1 | 2 | 3 |
| e. A free hiker shuttle system that would allow for one-way hikes through the area | 1 | 2 | 3 |
| f. A hiker shuttle system with a modest fee that would allow for one-way hikes through the area | 1 | 2 | 3 |

10. How did you get to Muir Woods today? (Circle all numbers that apply.)

1. Car/truck/van/SUV
2. Camper/RV
3. Tour bus
4. Public bus
5. Ferry
6. Taxi
7. Walked/hiked/jogged
8. Biked
9. Motorcycle
10. Other (Please specify: _____)

11. If you drove to Muir Woods today, where did you park? (Circle one number.)

1. In the main parking lot outside the park entrance
2. In the secondary parking lot down the road from the main parking lot
3. Along the road (About how long did you have to walk to get to the park entrance? _____ minutes)
4. Other (Please specify: _____)

12. The following ideas have been suggested to change the way in which Muir Woods is managed. Please indicate the extent to which you would support or oppose these suggestions. (Circle one number for each item.)

| | Strongly
Oppose | Oppose | Neither
Oppose nor
Support | Support | Strongly
Support |
|--|--------------------|--------|----------------------------------|---------|---------------------|
|--|--------------------|--------|----------------------------------|---------|---------------------|

| | | | | | |
|--|------------------------|---------------|-----------------------------------|----------------|-------------------------|
| a. Limit the number of visitors to reduce crowding | -2 | -1 | 0 | +1 | +2 |
| b. Limit the number of large groups of visitors (over 10 people per group) | -2 | -1 | 0 | +1 | +2 |
| | Strongly Oppose | Oppose | Neither Oppose nor Support | Support | Strongly Support |
| c. Require a reservation to park at Muir Woods during busy periods | -2 | -1 | 0 | +1 | +2 |
| d. Restrict parking at Muir Woods and provide visitor access by shuttle bus (with a fee of no more than \$5.00) from a visitor center on Highway 101 during busy periods | -2 | -1 | 0 | +1 | +2 |
| e. Charge a modest fee for parking (no more than \$10.00) at Muir Woods (in addition to the entrance fee) to help support a visitor shuttle bus system | -2 | -1 | 0 | +1 | +2 |
| f. Educate visitors about appropriate behavior (e.g., limit noise, stay on trails) | -2 | -1 | 0 | +1 | +2 |
| g. Enforce rules about appropriate behavior (e.g., limit noise, stay on trails) | -2 | -1 | 0 | +1 | +2 |
| h. Reduce the number or length of trails | -2 | -1 | 0 | +1 | +2 |
| i. Provide more information/education about natural history of the area | -2 | -1 | 0 | +1 | +2 |
| j. Provide more information/education about cultural history of the area | -2 | -1 | 0 | +1 | +2 |
| k. Remove some buildings from Muir Woods (e.g., administrative offices) | -2 | -1 | 0 | +1 | +2 |

13. Muir Woods includes a small café just inside the grove of redwoods. This provides a service to visitors, but may also cause some problems, such as litter and disturbance of

wild animals. Which of the following options would you prefer regarding food service at

Muir Woods? (Circle one number.)

1. Maintain current food service operation
2. Relocate cafe outside of the redwood grove but in Muir Woods National Monument (e.g., in the area of the current parking lot)
3. Eliminate food service within Muir Woods National Monument

14. How important were the following facilities or services to your enjoyment and appreciation

of Muir Woods? (Circle one number for each item.)

| | Very Unimportant | Unimportant | Neither Unimportant nor Important | Important | Very Important |
|--|------------------|-------------|-----------------------------------|-----------|----------------|
| a. Shelter from the weather | -2 | -1 | 0 | +1 | +2 |
| b. Opportunity to purchase cold and/or warm drinks | -2 | -1 | 0 | +1 | +2 |
| c. Opportunity to purchase light snacks | -2 | -1 | 0 | +1 | +2 |
| d. Opportunity to purchase lunch or other meal | -2 | -1 | 0 | +1 | +2 |

15a. In what year were you born?

Year born: _____

b. What is your gender? (Circle one number.)

1. Male
2. Female

c. What is the highest level of formal education you have completed? (Circle one number.)

1. Less than high school
2. High school graduate
3. Vocational/trade school certificate
4. Some college
5. Two-year college degree
6. Four-year college degree
7. Graduate degree

d. In what ethnicity and race would you place yourself?

Ethnicity: (Circle one number.)

1. Hispanic or Latino
2. Not Hispanic or Latino

Race: (Circle all numbers that apply.)

1. American Indian or Alaska Native
2. Asian
3. Black or African American
4. Native Hawaiian or other Pacific Islander
5. White

16. Did you or any member of your group have any special access needs? (Circle one number.)

1. Yes (Briefly explain:

2. No

Thank you for your help with this survey!

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-----Section Break (Next Page)-----

MUIR WOODS EXIT QUESTIONNAIRE

-----Page Break-----

MUIR WOODS NATIONAL MONUMENT

Visitor Survey 2003



Date: _____

Number: _____

Time: _____

Attendant: _____

BW/ PT

Weather: _____ Warm

_____ Cool

_____ Sunny

_____ Partly sunny

_____ Cloudy

_____ Foggy

_____ Rain

OMB Approval #1024-0224 (NPS #03-046)

Expiration Date: 02/29/2004

EXIT QUESTIONNAIRE

In 1908 Muir Woods was designated a National Monument to protect this redwood forest. Nearly a million people now visit Muir Woods each year. The National Park Service is working to protect natural and historical resources in the monument and identify ways to preserve or enhance the quality of the visitor experience. The information you provide in this questionnaire will help the National Park Service understand how visitors use and value Muir Woods and identify actions to help preserve this important National Monument.

1. We would like to know what added to and/or detracted from the quality of your visit to Muir

Woods today and what you value most about Muir Woods.

a. What did you enjoy most about your visit?

b. What did you enjoy least about your visit?

c. If you could ask the National Park Service to change some things about the way they manage Muir Woods, what would you ask them to do?

Have you visited Muir Woods National Monument before?

1. Yes_____

2. No_____ (skip to question 1e.)

Please note any things you think have changed for the better since your last visit.

—

Please note any things you think have changed for the worse since your last visit.

—

e. What do you value most about your visit to Muir Woods?

—

—

f. What do you consider to be the most important qualities of Muir Woods?

—

—

2. Some people have suggested that the following issues might be problems at Muir Woods. To

what extent do you think the following issues are problems? (Circle one number for each item.)

| | Not a
Problem | Small
Problem | Big
Problem | Don't
Know |
|--|------------------|------------------|----------------|---------------|
| a. Too many people along trails | 1 | 2 | 3 | DK |
| b. Large groups of people along trails | 1 | 2 | 3 | DK |
| c. Too many people at the gift shop | 1 | 2 | 3 | DK |

| | | | | |
|--|---|---|---|----|
| d. Too many people at the café | 1 | 2 | 3 | DK |
| e. Finding a parking place | 1 | 2 | 3 | DK |
| f. Finding your way to Muir Woods | 1 | 2 | 3 | DK |
| g. Finding your way around Muir Woods | 1 | 2 | 3 | DK |
| h. Visitors making too much noise | 1 | 2 | 3 | DK |
| i. Too much noise from outside the park | 1 | 2 | 3 | DK |
| j. People not obeying rules and regulations (e.g., walking off the trail, smoking) | 1 | 2 | 3 | DK |
| k. Lack of supervision of school/youth groups | 1 | 2 | 3 | DK |
| l. Lack of printed material about Muir Woods | 1 | 2 | 3 | DK |
| m. Lack of educational talks and programs about Muir Woods | 1 | 2 | 3 | DK |
| n. Lack of educational signs along trails | 1 | 2 | 3 | DK |
| o. Waiting to use restrooms | 1 | 2 | 3 | DK |
| p. Waiting to pay entrance fee | 1 | 2 | 3 | DK |
| q. Availability of park rangers | 1 | 2 | 3 | DK |
| r. Trails too highly developed | 1 | 2 | 3 | DK |
| s. Too many facilities | 1 | 2 | 3 | DK |
| t. Poor condition of trails | 1 | 2 | 3 | DK |
| u. Litter along trails | 1 | 2 | 3 | DK |

3. We would like to know how many people you think could use the trails at Muir Woods

without you feeling too crowded. To help judge this, we have a series of photographs that show different numbers of people along a section of the main trail. Please look at the photographs on **Poster 1**.

- a. Please rate each photograph by indicating how acceptable you think it is based on the number of people shown. A rating of “-4” means the number of people is very unacceptable, and a rating of “+4” means the number of people is very acceptable.

(Circle

one number for each photograph.)

| | Very Unacceptable | | | | | Very Acceptable | | | | |
|---------|-------------------|----|----|----|---|-----------------|----|----|----|--|
| Photo 1 | -4 | -3 | -2 | -1 | 0 | +1 | +2 | +3 | +4 | |
| Photo 2 | -4 | -3 | -2 | -1 | 0 | +1 | +2 | +3 | +4 | |
| Photo 3 | -4 | -3 | -2 | -1 | 0 | +1 | +2 | +3 | +4 | |
| Photo 4 | -4 | -3 | -2 | -1 | 0 | +1 | +2 | +3 | +4 | |
| Photo 5 | -4 | -3 | -2 | -1 | 0 | +1 | +2 | +3 | +4 | |
| Photo 6 | -4 | -3 | -2 | -1 | 0 | +1 | +2 | +3 | +4 | |

- b. Which photograph shows the level of use you would prefer to see along this trail?

Photo number: _____

- c. Which photograph shows the level of use you think is so unacceptable you would not return to Muir Woods? (If none of the photographs represent this condition, you may indicate that.)

Photo number: _____

OR

☐ None of the photographs are so unacceptable that I would not return to Muir Woods.

- d. Which photograph shows the highest level of use you think the National Park Service should allow on this trail? In other words, at what point should visitors be restricted from using this trail? (If use should not be restricted at any point represented by the photographs, or not restricted at all, you may indicate that.)

Photo number: _____

OR

☐ None of the photographs show a high enough level of use to restrict visitors from using this trail.

OR

☐ Visitor use should not be restricted

- e. Which photograph looks most like the number of visitors you typically saw along this trail today?

Photo number: _____

4. Your map diary indicates that you also hiked on trails that look more like the trail photographs shown in **Poster 2**. We would like to know how many people you think could use this type of trail without you feeling too crowded. Please answer the following questions as they apply to the photographs and trail shown in Poster 2.

- a. Please rate each photograph by indicating how acceptable you think it is based on the

number of people shown. A rating of “-4” means the number of people is very unacceptable, and a rating of “+4” means the number of people is very acceptable.

(Circle

one number for each photograph.)

| | Very Unacceptable | | | | | Very Acceptable | | | | |
|---------|-------------------|----|----|----|---|-----------------|----|----|----|--|
| Photo 1 | -4 | -3 | -2 | -1 | 0 | +1 | +2 | +3 | +4 | |
| Photo 2 | -4 | -3 | -2 | -1 | 0 | +1 | +2 | +3 | +4 | |
| Photo 3 | -4 | -3 | -2 | -1 | 0 | +1 | +2 | +3 | +4 | |
| Photo 4 | -4 | -3 | -2 | -1 | 0 | +1 | +2 | +3 | +4 | |
| Photo 5 | -4 | -3 | -2 | -1 | 0 | +1 | +2 | +3 | +4 | |
| Photo 6 | -4 | -3 | -2 | -1 | 0 | +1 | +2 | +3 | +4 | |

b. Which photograph shows the level of use you would prefer to see along this trail?

Photo number: _____

c. Which photograph shows the level of use you think is so unacceptable you would not return to Muir Woods? (If none of the photographs represent this condition, you may indicate that.)

Photo number: _____

OR

☐ None of the photographs are so unacceptable that I would not return to Muir Woods.

d. Which photograph shows the highest level of use you think the National Park Service should allow on this trail? In other words, at what point should visitors be restricted from using this trail? (If use should not be restricted at any point represented by the photographs, or not restricted at all, you may indicate that.)

Photo number: _____

OR

☐ None of the photographs show a high enough level of use to restrict visitors from using this trail.

OR

☐ Visitor use should not be restricted

e. Which photograph looks most like the number of visitors you typically saw along the trail today?

Photo number: _____

5. How crowded did you feel at Muir Woods today? (Circle one number for each location you visited.)

| | Not at all Crowded | | Slightly Crowded | | | Moderately Crowded | | Extremely Crowded | |
|-------------------------------|--------------------|---|------------------|---|---|--------------------|---|-------------------|---|
| a. Along the trails | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| b. In the parking area | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| c. Along the road to the park | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| d. In the Visitor Center | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| e. In the gift shop | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| f. In the cafe | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| g. Overall | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

6. Which of the following facilities/areas did you visit today? (Circle one number for each item.)

At Muir Woods:

| | Yes | No |
|-------------------|-----|----|
| a. Visitor Center | 1 | 2 |
| b. Cafe | 1 | 2 |
| c. Gift shop | 1 | 2 |
| d. Restrooms | 1 | 2 |

Hiking beyond Muir Woods:

| | Yes | No |
|----------------------|-----|----|
| a. Tourist club | 1 | 2 |
| b. West Point Inn | 1 | 2 |
| c. Mountain Home Inn | 1 | 2 |

7. How would you rate the following facilities and services at Muir Woods? (Circle one number

for each item. If you did not use a facility or service, please leave it blank.)

| | Very Poor | Poor | Adequate | Good | Excellent |
|---|-----------|------|----------|------|-----------|
| a. Amount of information (e.g., educational signs/displays, brochures) | 1 | 2 | 3 | 4 | 5 |
| b. Quality of information (e.g., educational signs/displays, brochures) | 1 | 2 | 3 | 4 | 5 |
| c. Trail signage (directions, distances) | 1 | 2 | 3 | 4 | 5 |
| d. Number of restrooms | 1 | 2 | 3 | 4 | 5 |
| e. Cleanliness of restrooms | 1 | 2 | 3 | 4 | 5 |
| f. Availability of rangers/staff | 1 | 2 | 3 | 4 | 5 |
| g. Helpfulness of rangers/staff | 1 | 2 | 3 | 4 | 5 |
| h. Availability of water | 1 | 2 | 3 | 4 | 5 |
| i. Availability of food | 1 | 2 | 3 | 4 | 5 |
| j. Availability of seating along trails | 1 | 2 | 3 | 4 | 5 |

8. Which of the following sources of information did you use to plan your visit to Muir Woods?

(Circle all numbers that apply.)

1. Guide book/map
2. Park website (<http://www.nps.gov/muwo/index.htm>)
3. Other websites
4. Highway signs
5. Commercial tour company/travel agent
6. Previous visit
7. Friend or relative
8. Contacted National Park Service
9. Other (Please specify: _____)

9.a. The main trails in Muir Woods have been developed in two ways as shown in the photographs on **Poster 3**: A) asphalt paving with split rail fences, and B) raised boardwalks

with an elevated edge, and C) primitive, compacted dirt paths. Which of these do you

prefer? (Circle one number.)

1. Prefer A
2. Prefer B
3. Prefer C

b. Briefly, why do you prefer A, B or C?

10. The following visitor facilities and services have been suggested for Muir Woods and the

surrounding area. Please indicate if you think you might use these facilities and services if

they were offered. (Circle one number for each item.)

| | Yes,
likely | Don't
know | No,
unlikely |
|---|----------------|---------------|-----------------|
| a. Bicycle rentals (for use <u>outside</u> Muir Woods) | 1 | 2 | 3 |
| b. Long (2 or more hours) guided hikes | 1 | 2 | 3 |
| c. An audio tour of Muir Woods (to be used as you walk through the woods) | 1 | 2 | 3 |
| d. Half to one-day field workshops/seminars on natural and/or cultural history at Muir Woods and the surrounding area | 1 | 2 | 3 |
| e. A free hiker shuttle system that would allow for one-way hikes through the area | 1 | 2 | 3 |
| f. A hiker shuttle system with a modest fee that would allow for one-way hikes through the area | 1 | 2 | 3 |

11. How did you get to Muir Woods today? (Circle all numbers that apply.)

1. Car/truck/van/SUV
2. Camper/RV
3. Tour bus
4. Public bus
5. Ferry
6. Taxi
7. Walked/hiked/jogged
8. Biked
9. Motorcycle
10. Other (Please specify: _____)

12. If you drove to Muir Woods today, where did you park? (Circle one number.)

1. In the main parking lot outside the park entrance
2. In the secondary parking lot down the road from the main parking lot
3. Along the road (About how long did you have to walk to get to the park entrance? _____)
4. Other (Please specify: _____)

13. The following ideas have been suggested to change the way in which Muir Woods is managed. Please indicate the extent to which you would support or oppose these suggestions. (Circle one number for each item.)

| | Strongly Oppose | Oppose | Neither Oppose nor Support | Support | Strongly Support |
|--|------------------------|---------------|-----------------------------------|----------------|-------------------------|
| a. Limit the number of visitors to reduce crowding | -2 | -1 | 0 | +1 | +2 |
| b. Limit the number of large groups of visitors (over 10 people per group) | -2 | -1 | 0 | +1 | +2 |
| c. Require a reservation to park at Muir Woods during busy periods | -2 | -1 | 0 | +1 | +2 |
| d. Restrict parking at Muir Woods and provide visitor access by shuttle bus (with a fee of no more than \$5.00) from a visitor center on Highway 101 during busy periods | -2 | -1 | 0 | +1 | +2 |
| e. Charge a modest fee for | | | | | |

| | | | | | |
|---|----------------------------|---------------|---|----------------|-----------------------------|
| parking (no more than \$10.00)
at Muir Woods (in addition to
the entrance fee) to help
support a visitor shuttle bus
system | -2 | -1 | 0 | +1 | +2 |
| f. Educate visitors about
appropriate behavior (e.g.,
limit noise, stay on trails) | -2 | -1 | 0 | +1 | +2 |
| g. Enforce rules about
appropriate behavior (e.g.,
limit noise, stay on trails) | -2 | -1 | 0 | +1 | +2 |
| h. Reduce the number or
length of trails | -2 | -1 | 0 | +1 | +2 |
| | Strongly
Oppose | Oppose | Neither
Oppose nor
Support | Support | Strongly
Support |
| i. Provide more
information/education
about natural history of the
area | -2 | -1 | 0 | +1 | +2 |
| j. Provide more
information/education
about cultural history of
the area | -2 | -1 | 0 | +1 | +2 |
| k. Remove some buildings
from Muir Woods (e.g.,
administrative offices) | -2 | -1 | 0 | +1 | +2 |

14. Muir Woods includes a small café just inside the grove of redwoods. This provides a service to visitors, but may also cause some problems, such as litter and disturbance of

wild animals. Which of the following options would you prefer regarding food service at

Muir Woods? (Circle one number.)

1. Maintain current food service operation
2. Relocate café outside of the redwood grove but in Muir Woods National Monument (e.g., in the area of the current parking lot)
3. Eliminate food service within Muir Woods National Monument

15. How important were the following facilities or services to your enjoyment and appreciation

of Muir Woods? (Circle one number for each item.)

| | | | | | |
|--|-------------|--|----------------|--|-------------|
| | Very | | Neither | | Very |
|--|-------------|--|----------------|--|-------------|

| | Unimportant | Unimportant | Unimportant
nor
Important | Important | Important |
|--|-------------|-------------|---------------------------------|-----------|-----------|
| a. Shelter from the weather | -2 | -1 | 0 | +1 | +2 |
| b. Opportunity to purchase cold and/or warm drinks | -2 | -1 | 0 | +1 | +2 |
| c. Opportunity to purchase light snacks | -2 | -1 | 0 | +1 | +2 |
| d. Opportunity to purchase lunch or other meal | -2 | -1 | 0 | +1 | +2 |

16a. In what year were you born?

Year born: _____

b. What is your gender? (Circle one number.)

1. Male
2. Female

c. What is the highest level of formal education you have completed? (Circle one number.)

1. Less than high school
2. High school graduate
3. Vocational/trade school certificate
4. Some college
5. Two-year college degree
6. Four-year college degree
7. Graduate degree

d. In what ethnicity and race would you place yourself?

Ethnicity: (Circle one number.)

1. Hispanic or Latino
2. Not Hispanic or Latino

Race: (Circle all numbers that apply.)

1. American Indian or Alaska Native

2. Asian
3. Black or African American
4. Native Hawaiian or other Pacific Islander
5. White

17. Did you or any member of your group have any special access needs? (Circle one number.)

1. Yes (Briefly explain:

_____)

2. No

Thank you for your help with this survey!

PRIVACY ACT and PAPERWORK REDUCTION ACT statement:

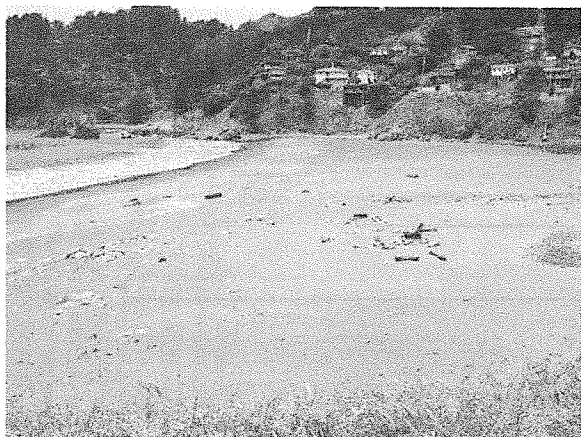
16 U.S.C. 1a-7 authorizes collection of this information. This information will be used by park managers to better serve the public. Response to this request is voluntary. No action may be taken against you for refusing to supply the information requested. Your name is requested for follow-up mailing purposes only. When analysis of the questionnaire is completed, all name and address files will be destroyed. Thus the permanent data will be anonymous. Data collected through visitor surveys may be disclosed to the Department of Justice when relevant to litigation or anticipated litigation, or to appropriate Federal, State, local or foreign agencies responsible for investigating or prosecuting a violation of law. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. **BURDEN ESTIMATE STATEMENT:** Public reporting burden for this form is estimated to average 10 minutes per response. Direct comments regarding the burden estimate or any other aspect of this form to Information Collection Clearance Officer, WASO Administration Program Center, National Park Service, 1849 C Street, N.W., Washington, D.C. 20240.

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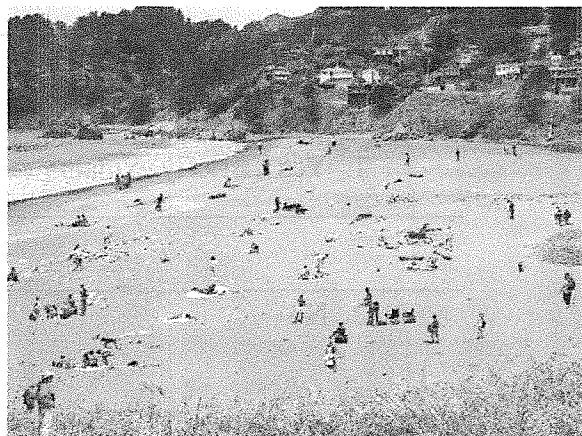
APPENDIX B: Study Photographs

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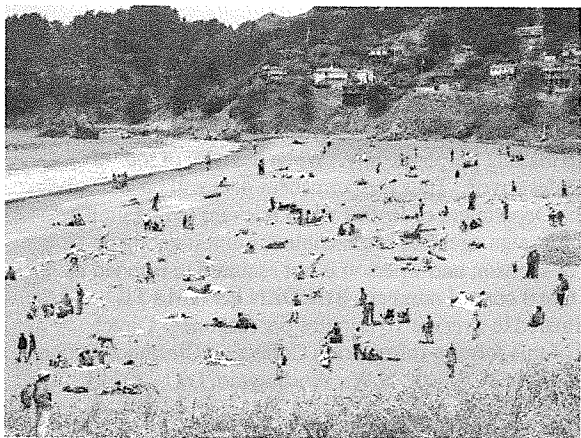
PAOT at Muir Beach



(0 PAOT)



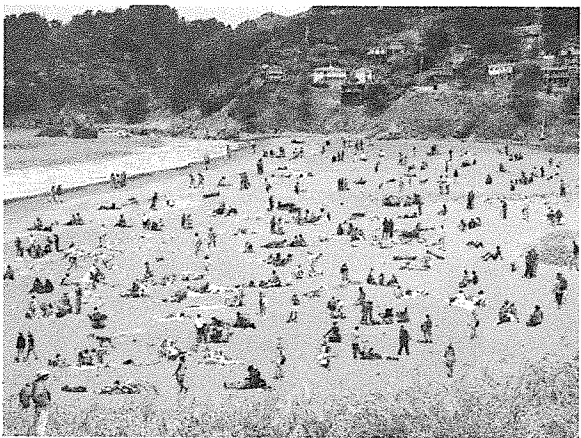
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(138 PAOT)



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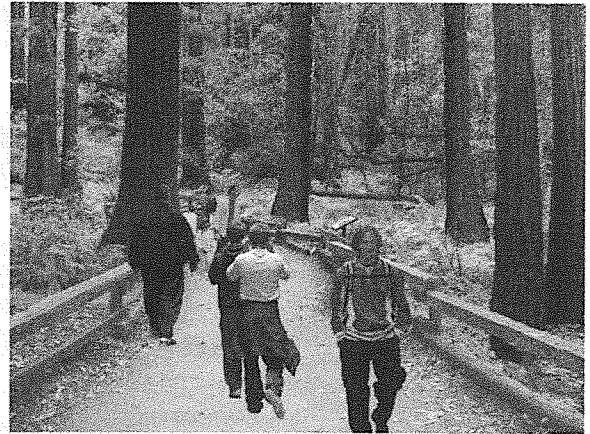


(276 PAOT)

PPV along Main Trails



(0 PPV)



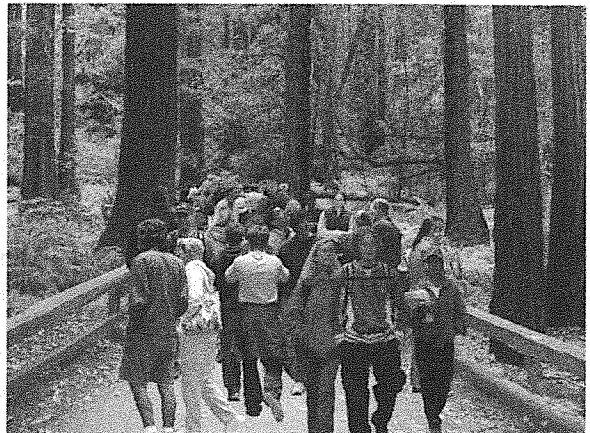
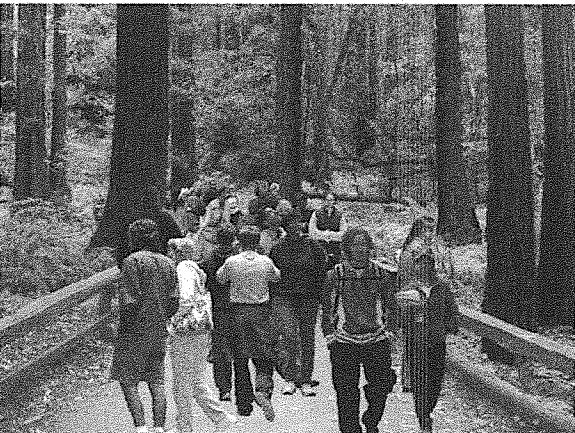
(6 PPV)



(12 PPV)



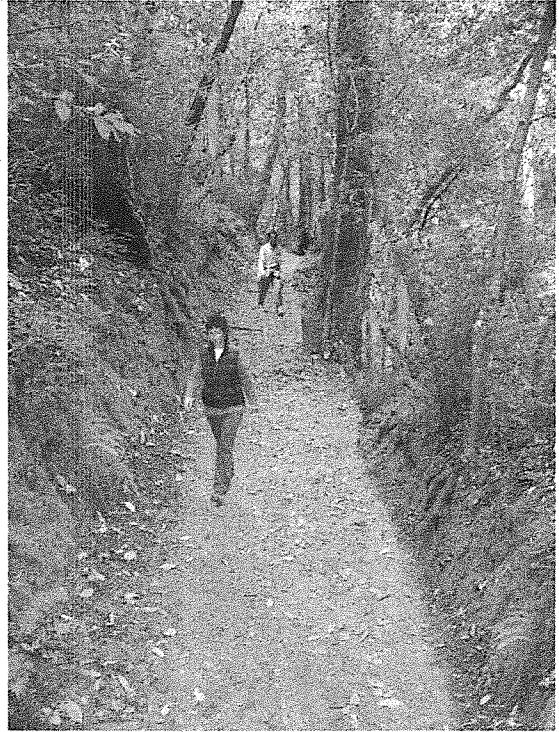
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(24 PPV)

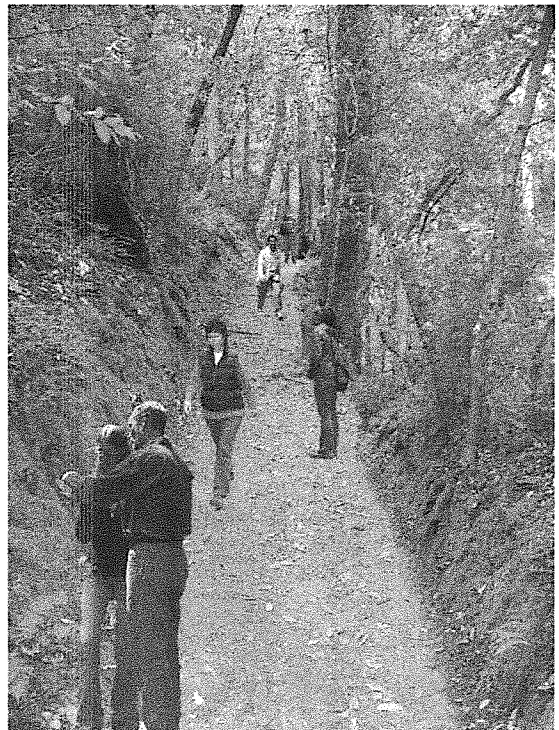
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PPV along Unpaved Trails



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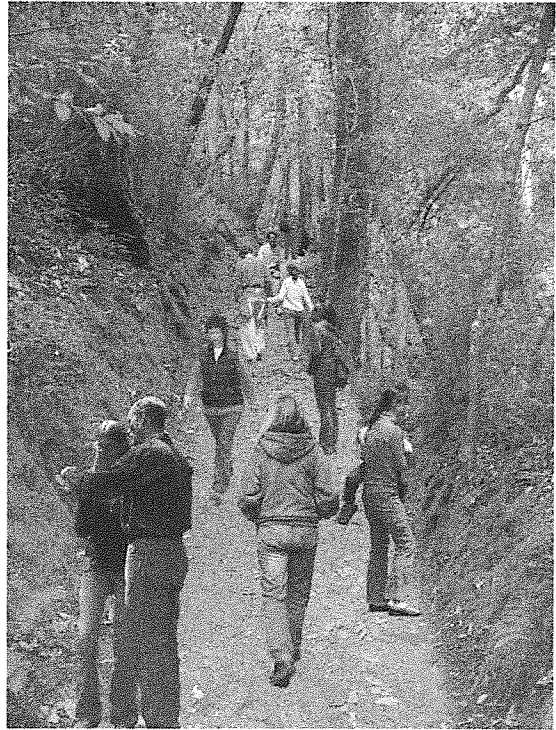
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(4 PPV)



(6 PPV)



(8 PPV)

(10 PPV)

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Levels of Trail Development



Paved Trail (A)





Boardwalk (B)

Unpaved Trail (C)

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APPENDIX C: Open-ended Comments

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MUIR BEACH OPEN ENDED CODES

Enjoy most

| Q 5a. What did you enjoy most about your visit to Muir Beach? | |
|---|-----------|
| | Frequency |
| Muir beach | 1 |
| Able to bring our dog | 1 |
| Accessibility- rest rooms- weather | 1 |
| Access to the total beach including the nude beach | 1 |
| All- not crowded | 1 |
| Always enjoy this beach. Convenience to city | 1 |
| Bathroom | 1 |
| Beach | 1 |
| Beach | 1 |
| Beach corners | 1 |
| Beach itself, creek, deck made of plastic! | 1 |
| Beach not too crowded the water was not too cold | 1 |
| Beach surveyors | 1 |
| Beach/surf | 1 |

| | |
|--|---|
| Beautiful + clean | 1 |
| Beautiful beach | 2 |
| Beautiful beach, lots of people, warm weather, nice sun | 1 |
| Beautiful natural beach & hills and access to Green Gulch Farm | 1 |
| Beautiful natural surroundings & people doing interesting things like painting | 1 |
| Beautiful ocean | 1 |
| Beautiful scenery- trees, rock formations, views down the coast | 1 |
| Beautiful surroundings in addition to shore- I like that the trail to beach meanders, "forcing" visitors to walk than the different "eco-zones" of MB. | 1 |
| Beautiful, clean, peaceful beach | 1 |
| Beautiful; free; easy access; non-commercial; families and dogs | 1 |
| Beauty- | 1 |
| Beauty | 2 |
| Beauty | 2 |
| Beauty of the area | 1 |
| Beauty of the scene | 1 |
| Beauty proximity | 1 |
| Beauty, calm, environment | 1 |
| Beauty, peace & quiet | 1 |
| Being able to enjoy the beach with my dog and son | 1 |
| Being able to walk the trails w/ my dogs | 1 |
| Being here; drive to; cleanliness | 1 |
| Being in nature | 1 |
| Birds | 1 |
| Birds | 1 |
| Breathtaking vista | 1 |
| Bringing my dog | 1 |
| Clean beach and friendly | 1 |
| Clean pristine beautiful beach + tide pools | 1 |
| Clean sand nice water nice day | 1 |
| Clean sand; clear blue sky; available parking without fee | 1 |
| Clean well maintained | 1 |
| Clean, green, maintained & mostly locals | 1 |
| Clean, ok sand quality | 1 |
| Clear beach, beauty of the water | 1 |
| Clear sky, air, view, water | 1 |
| Cliffs, air, sand, energy | 1 |
| Climbing on the rocks | 1 |
| Clothing optional beach | 1 |
| Company | 1 |
| Crawdad & newt in creek | 1 |
| Dogs | 1 |
| Dogs | 1 |
| Dogs are accepted | 1 |
| Dogs present; clean beach | 1 |

| | |
|---|---|
| Drum circle | 1 |
| Dunes, sand, dogs, coastline, trailhead, horses | 1 |
| Easily available | 1 |
| Easy access | 1 |
| Easy parking open area gives feel for what this area was like before settlement. Beautiful vista | 1 |
| Enjoying the scenery and waves | 1 |
| Environment | 1 |
| Environment-can't get this in mid-west | 1 |
| Everything- not commercialized | 1 |
| Everything | 1 |
| Everything natural; surf sounds | 1 |
| Everything, setting, views quiet | 1 |
| Fabulous view of SF | 1 |
| Fairly clean, easily accessible beach | 1 |
| Fog | 1 |
| Free easy access | 1 |
| Free run for dogs | 1 |
| Freedom to run dogs | 1 |
| Fresh air- views- areas to walk to- trails | 1 |
| Fresh air, relaxing atmosphere | 1 |
| Friendly people | 1 |
| Friendship Green Gulch Gadem! | 1 |
| Going on rocks playing on sand | 1 |
| Going swimming | 1 |
| Good weather | 1 |
| Good weather beach un-crowded | 1 |
| Grey sand. View. Trails. | 1 |
| H2O, not many people here- good! | 1 |
| Having a dog with us | 1 |
| Having trails along the coast | 1 |
| Hike to Green Gulch | 1 |
| Hiking paths, beautiful vistas | 1 |
| Hiking views | 1 |
| I'm on vacation; what am I not to like? | 1 |
| I love the coastal trails & rocky pools it's a shame that people don't pack out all of their trash – we always gather more stuff than we bring in | 1 |
| Incredible view, hiking trails, serenity of beach front areas & trails | 1 |
| It's a beautiful + close | 1 |
| It's beautiful | 1 |
| It's beautiful & access is easy | 1 |
| It's natural, not overdeveloped | 1 |
| It's pretty | 1 |
| It was quiet. I've never been here before and I thought that it was very cool that you have fire pits | 1 |
| Jellyfish & rocks | 1 |

| | |
|--|---|
| Just sitting on the beach | 1 |
| Letting my dog run free in the waves and meeting lots of cool people | 1 |
| Large open natural beach, no stores, allows dogs, beautiful vistas | 1 |
| More parking | 1 |
| Morning quietness | 1 |
| Muir beach's natural resources | 1 |
| Mussels, sponges & starfish | 1 |
| My children | 1 |
| Napping at the ocean | 1 |
| Natural beauty | 2 |
| Natural beauty, open beach, free parking/ access | 1 |
| Natural beauty, trails, accessibility to ocean, dogs allowed | 1 |
| Natural beauty, wonderful weather | 1 |
| Natural caverns | 1 |
| Natural clean habitat | 1 |
| Natural scenery | 1 |
| Natural surroundings | 1 |
| Nature | 2 |
| Nature | 2 |
| Never been before, saw Pacific | 1 |
| Never been here before have been curious about Nor Al beaches. | 1 |
| Nice picnic area | 1 |
| Nice sand | 1 |
| Nice trail | 1 |
| Nice views | 1 |
| Nice walk | 1 |
| No cars! The fresh air & the view. Also, I like not having too many people here. Also, nice wetland Also, no charge! | 1 |
| No crowds | 1 |
| Not crowded not too "developed" | 1 |
| Not crowded, friendly people beautiful scenery, fine weather | 1 |
| Not too crowded today | 1 |
| Not too many people & sunny day | 1 |
| Nothing- only stayed 2 min | 1 |
| Nude beach | 1 |
| Nude beach | 1 |
| Nude beach area, also the "cove" vista from the ridge above | 1 |
| Nude section dog freedom | 1 |
| Nudist beach- north end Limited # of people on beach | 1 |
| Ocean | 3 |
| Ocean & birds | 1 |
| Ocean nudity | 1 |
| Ocean view | 1 |
| Ocean view/ access | 1 |
| Ocean views | 1 |
| Ocean, birds | 1 |

| | |
|--|---|
| Ocean, path, ocean | 1 |
| Ocean, sun | 1 |
| Ocean, sun, view | 1 |
| Ocean/ surf | 1 |
| Off- leash beach play w/ dog | 1 |
| One, here for 10 minutes | 1 |
| Only coming here to enjoy the natural environment or visit someone | 1 |
| Open space natural habitats, wildlife, lack of evidence of human use | 1 |
| Openness, lack of people in the crowd | 1 |
| Pacific | 1 |
| Pacific | 1 |
| Pacific ocean | 1 |
| Pacific ocean & small beach | 1 |
| Playing with dogs & kids on beach | 1 |
| Peace & quiet- rocky edge at beach | 1 |
| Peace & quiet | 1 |
| Peace & Quiet | 1 |
| Peace and beauty | 1 |
| Peaceful | 1 |
| Peaceful nice bay | 1 |
| Peacefulness and serenity | 1 |
| Playing in the ocean | 1 |
| Playing in the sand | 1 |
| Playing in the sand | 1 |
| Playing on the rocks | 1 |
| Playing w/dog, walking in water, meeting little kids, the view | 1 |
| Playing with my son on the warm sand | 1 |
| Plenty of parking | 1 |
| Pretty views | 1 |
| Quiet | 4 |
| Quiet and peaceful | 1 |
| Quiet beautiful beach/water | 1 |
| Quiet early, dogs here seem better behaved than other areas; generally clean | 1 |
| Quiet natural atmosphere, people enjoying themselves | 1 |
| Quiet place with great views | 1 |
| Quiet serenity, air quality, natural/undeveloped, | 1 |
| Quiet sunrise | 1 |
| Quiet trails | 1 |
| Quiet, Natural environment restoration | 1 |
| Quiet, secluded, scenic | 1 |
| Quiet, solitude | 1 |
| Quiet, sound of ocean, no development, green | 1 |
| Rocks | 1 |
| Sand on my feet and the breeze | 1 |
| Sand, water, view | 2 |

| | |
|---|---|
| Sand/ocean/birds | 1 |
| Sandy beach | 1 |
| Scenery- ocean | 1 |
| Scenery | 9 |
| Scenery & trails and allows dogs | 1 |
| Scenery not crowded | 1 |
| Scenery weather | 1 |
| Scenery, sun | 1 |
| Scenic view | 1 |
| Sea life on the rock outcroppings | 1 |
| Sea life. Waves on rocks. Fig | 1 |
| Sea. | 1 |
| Seeing areas restricted & protected and the abundance of the plant life, educational cards getting people more interested in the area | 1 |
| Serenity, I practically had the place to myself | 1 |
| Small beach, scenery | 1 |
| Small blue fish | 1 |
| Small communal feeling | 1 |
| Small environment | 1 |
| Soft sand watching the surf & meeting some of the locals with their dogs | 1 |
| Solitude, quietness | 1 |
| Sound of ocean | 1 |
| Sound of the surf | 1 |
| Space | 1 |
| Starfish, sea anemones | 1 |
| Sun | 1 |
| Sun & waves | 1 |
| Sun and sand | 1 |
| Sun sand | 1 |
| Sun surf | 1 |
| Sun, view | 1 |
| Sun. calm weather, natural environment and setting | 1 |
| Sunny, water sand hike people watching | 1 |
| Surf + sand body surfing dog able to visit fewer people | 1 |
| Surroundings | 1 |
| Swimming & I love to sit on rocks- | 1 |
| Temperature climate close to home | 1 |
| Temperature, no blowing sand, sun! | 1 |
| The absence of nay building/developments | 1 |
| The area is so pristine no commercial venues... food stands, billboards etc. | 1 |
| The beach | 2 |
| The beach. View from the bluff | 1 |
| The beach itself | 1 |
| The beach was empty and quiet | 1 |
| The beach, the view, the waves, the women | 1 |

| | |
|--|---|
| The beauty | 1 |
| The beauty & relaxed atmosphere | 1 |
| The beauty of the beach | 1 |
| The beauty of the beach and all of the cool rocks | 1 |
| The beauty of the landscape | 1 |
| The beauty, variety, cleanliness, view | 1 |
| The closeness of Muir beach to MKE valley | 1 |
| The company | 1 |
| The crashing waves | 1 |
| The dogs & the cliffs | 1 |
| The flying spray & the blown spume | 1 |
| The hiking on the bluff | 1 |
| The lack of crowds | 1 |
| The lush trail | 1 |
| The natural aspect | 1 |
| The natural beauty of the beach and the Pacific ocean | 1 |
| The natural beauty | 1 |
| The natural habitat | 1 |
| The nice landscape -the nice beach and the lovely girls | 1 |
| The nice weather | 1 |
| The nude beach area, the noticeable renovation to preserve the grassy area | 1 |
| The ocean | 2 |
| The ocean | 1 |
| The ocean & crashing waves noise, relaxing, beauty of the ocean | 1 |
| The ocean & environment. | 1 |
| The ocean + beach and being able to take our dog for a walk | 1 |
| The ocean and beauty of the place | 1 |
| The ocean and rocks | 1 |
| The ocean view | 1 |
| The ocean, temperature, overall physical beauty | 1 |
| The ocean, wind, sun, peacefulness | 1 |
| The overcast day - the almost empty beach | 1 |
| The picnic with friend grassy area | 1 |
| The quiet, serene serenity | 1 |
| The quiet | 1 |
| The quiet & peace of the beach | 1 |
| The quiet aspect, the beauty | 1 |
| The rock climbing | 1 |
| The sand | 1 |
| The sand + surf - walking at the beach | 1 |
| The scenery, sand hills | 1 |
| The scenery | 3 |
| The scenery & wind | 1 |
| The scenic beauty | 1 |
| The scenic beauty, the wide beach | 1 |
| The scenery- water | 1 |

| | |
|--|---|
| The setting | 1 |
| The shifting sands | 1 |
| The soft sand | 1 |
| The solitude on the rocks | 1 |
| The solitude, & the water & close to home | 1 |
| The solitude, the sea life as the tide pools | 1 |
| The sound of the ocean | 1 |
| The stunning location | 1 |
| The sun and the view | 1 |
| The sun did come out | 1 |
| The surf & cold weather | 1 |
| The surf, the sun, the dogs and not too many people | 1 |
| The temperature! | 1 |
| The trails | 1 |
| The view | 1 |
| The view | 2 |
| The view | 2 |
| The View | 1 |
| The view & surf | 1 |
| The view and great trails | 1 |
| The view from the cliffs | 1 |
| The view from the hilltop bench | 1 |
| The view, it's quaintness + how it seemed untouched | 1 |
| The view, peacefulness | 1 |
| The view, the sound of the water, the seal who popped his head out of the water, the birds | 1 |
| The warm sand | 1 |
| The water | 3 |
| The water | 1 |
| The water, Vi clear | 1 |
| The weather | 1 |
| The weather & scenery | 1 |
| The wilderness | 1 |
| Tidal pool life | 1 |
| Tide pools | 1 |
| Trail, coastal scene | 1 |
| Very clean & quiet | 1 |
| View- very beautiful and natural. | 1 |
| View | 8 |
| View of ocean | 1 |
| View, air | 1 |
| View, open space | 1 |
| Views | 3 |
| Views | 1 |
| Views and friendly people | 1 |
| Views and our ability to get naked and bring dogs | 1 |

| | |
|--|---|
| Views of the ocean | 1 |
| Views, small size, rock formations Dog beach | 1 |
| Vistas on a clear day | 1 |
| Wading in water; views from coastal trail; watching the dogs playing | 1 |
| Walking | 1 |
| Walking along beach | 1 |
| Walking on foot bridge | 1 |
| Walking the dog | 1 |
| Walking the tide line | 1 |
| Was just checking out good places | 1 |
| Watching the waves, pleasant weather, place to have lunch watching the kids play | 1 |
| Water | 1 |
| Water | 1 |
| Water is warmer now- body surfing | 1 |
| Water ride, beach, fresh air, the wind, clear and wonderful | 1 |
| Water, hills | 1 |
| Water, sun | 1 |
| We can bring our dogs | 1 |
| Weather | 1 |
| Weather is perfect today. Pretty setting | 1 |
| Weather, few people | 1 |
| Wild rocky areas | 1 |
| Wildlife | 1 |
| Wildlife, natural habitat, quiet | 1 |
| Wildlife/tide pools | 1 |
| Wind water sun | 1 |

Enjoy least

| Q 5b. What did you enjoy least about your visit to Muir Beach? | |
|--|-----------|
| | Frequency |
| "Contaminated water" sign | 1 |
| "Warning to avoid contact w/ water" | 1 |
| Toilets are poor | 1 |
| No drinking faucets | 1 |
| A dog that just came over and took a leak 2 feet from where I am sitting at this picnic table! | 1 |
| A little windy | 1 |
| A little windy today | 1 |
| A very windy day | 1 |
| Advisory that water below legal standards | 1 |
| All good | 1 |
| Amount of trash | 1 |
| Avoiding contact with the water due to bacteria | 1 |

| | |
|---|---|
| Bacteria | 2 |
| Bacteria in stream | 1 |
| Bacteria in water, so "no contact" | 1 |
| Bacteria infested water, trash (not way too much, just barely) | 1 |
| Bacteria laden water | 1 |
| Bacteria sign! | 1 |
| Bacterial levels in water made swimming unsafe | 1 |
| Bathrooms | 2 |
| Bathrooms | 2 |
| Bathrooms were dirty | 1 |
| Bathrooms; beach litter | 1 |
| Being chased off the grass by homeowner- understandable- wanted to avoid hillside erosion | 1 |
| Being sand blasted by the wind | 1 |
| Being whipped by sand the water bacteria | 1 |
| Bird shit on my finger | 1 |
| Bits of garbage left | 1 |
| Blowing sand- which is unusual | 1 |
| Blowing sand | 1 |
| Bottoming out son's car | 1 |
| Came @ hottest time of day- sun damage | 1 |
| Cars, cars, cars | 1 |
| Charcoal | 1 |
| Clean up the high bacteria level in the H2O | 1 |
| Cold cloudy | 1 |
| Cold, damp, & foggy weather | 1 |
| Cold, grey sand, restrooms not so nice | 1 |
| Concern re water | 1 |
| Condition of beach | 1 |
| Contaminated H2O | 1 |
| Contamination | 1 |
| Cool weather dead rat | 1 |
| Could have more fire rings | 1 |
| Could NOT swim due to high bacteria count in water | 1 |
| Couldn't go in water/ unleashed dog | 1 |
| Crowds | 1 |
| Crowds at Muir beach | 1 |
| Damage to the trails from horses (large divots from hooves in wet weather) | 1 |
| Dangerous water at back of beach | 1 |
| Dead birds on beach & trails & ticks | 1 |
| Dead sea lion | 1 |
| Dead sea lion | 1 |
| Dead seal | 2 |
| Dead seal, dead birds | 1 |

| | |
|--|---|
| Dead seal. Dog poop, litter | 1 |
| Dead sea lion | 1 |
| Dead sea lion carcass, lots of garbage in the sand, | 1 |
| Debris (natural): dead seagulls | 1 |
| Debris on beach | 1 |
| Debris: dead birds | 1 |
| Dirty | 1 |
| Dirty beach ugly fire pits horse poop | 1 |
| Disgusting overfilled portable toilets | 1 |
| Disorganized parking lot | 1 |
| Dog feces on the sand | 1 |
| Dog feces/ horse feces | 1 |
| Dog peeing on our stuff; Hi-E-coli-non swimming | 1 |
| Dog poop & bacteria in H2O | 1 |
| Dog shit. | 1 |
| Dog waste on beach litter | 1 |
| Dogs | 2 |
| Dogs & parking lot in middle of beautiful area | 1 |
| Dogs & polluted water | 1 |
| DOGS OFF LEASH. | 1 |
| Dogs off leashes | 1 |
| Dogs on beach | 1 |
| Dogs on the beach | 1 |
| Dogs running around without a leash or owners allowing dogs to poop and urinate everywhere | 1 |
| Dogs! Off leash- | 1 |
| Dogs. Dirty! | 1 |
| Dusty sand | 1 |
| Eroded conditions of trails to beach look outs | 1 |
| Everything is fine | 1 |
| Facilities | 1 |
| Falling | 1 |
| Filthy restroom facilities | 1 |
| Fire pits/garbage | 1 |
| Fishy smell, nasty toilets | 1 |
| Flotsam on beach | 1 |
| Fog | 2 |
| Fog | 1 |
| Fog cold, sick water | 1 |
| Garbage | 2 |
| Garbage especially in the creek | 1 |
| Garbage on beach | 1 |
| Garbage, water quality | 1 |
| Glass on the beach | 1 |
| Green Gulch closed for retreat | 1 |

| | |
|---|----|
| Grey skies | 1 |
| Grim weather, smelly | 1 |
| High wind- blowing, stinging sand | 1 |
| Horse poop rotting corpses | 1 |
| Hot sand | 2 |
| Humidity- please change that | 1 |
| Inlet closed because of high bacterial content | 1 |
| It's cold! Fishing boats right in bay | 1 |
| It's more crowded than I'm used to but I usually don't visit in summer | 1 |
| It was a little cold:) | 1 |
| Jellyfish (not sure if dangerous to stand on or touch – do they still sting or cause any harm?) | 1 |
| Junk on the beach | 1 |
| Kids everywhere, Horse dung on the trails-everywhere! | 1 |
| Lack of ability to swim- knowing that this beautiful water is polluted | 1 |
| Lack of road signs | 1 |
| Lack of running H2O | 1 |
| Leash law | 1 |
| Litter | 2 |
| Litter!! Litter | 1 |
| Litter/rubbish | 1 |
| Long walks with kids | 1 |
| Loose dogs & broken glass | 1 |
| Lots of dead birds on beach | 1 |
| Lots of people | 1 |
| Lots of people, but can't do anything about that | 1 |
| Lots of traffic- also too windy today, but that's out of our control | 1 |
| No low pts. | 1 |
| No place on beach to put trash that has washed up | 1 |
| No potable water or source of drinks | 1 |
| No problems, no least | 1 |
| No public drinking fountain | 1 |
| No sun | 3 |
| No swimming | 1 |
| No water contact | 1 |
| None | 1 |
| None | 1 |
| Not able to go into the water because of bacteria | 1 |
| Not being able to have dogs off leash | 1 |
| Not enough parking | 1 |
| Not too many complaints | 1 |
| Not very clean | 1 |
| Nothing- it's the beach | 1 |
| Nothing-state of mind | 1 |
| Nothing | 15 |

| | |
|---|---|
| Nothing | 1 |
| NOTHING | 1 |
| Nothing negative | 1 |
| Nothing really | 1 |
| Nude beach | 1 |
| Nude men, wind | 1 |
| Nude people at end of beach | 1 |
| Number of visitors | 1 |
| Off leash dogs | 1 |
| Other people | 1 |
| Outhouse facilities | 1 |
| People | 1 |
| People are not taking care of the water | 1 |
| People nature | 1 |
| Poison oak on hills | 1 |
| Polluted water | 1 |
| Polluted water, dirty toilets | 1 |
| Poop | 1 |
| Poop on the beach | 1 |
| Poor view | 1 |
| Poor water quality | 1 |
| Port o potties | 1 |
| Portal potties, garbage and sand dogs not leashed | 1 |
| Portable toilets | 1 |
| Portable potties | 1 |
| Possibly the traffic etc.- I try to come during the week | 1 |
| Refuse on path | 1 |
| Rest-rooms | 1 |
| Restrooms | 3 |
| Restrooms No water | 1 |
| Rocks on beach | 1 |
| Same | 1 |
| Sand | 1 |
| Sand blasting- impaired vision and walking | 1 |
| Sand blasting by wind | 1 |
| Sand condition | 1 |
| Sand in hiking boots | 1 |
| Sand in my shoes (not much of a least) | 1 |
| Saw some trash | 1 |
| Sea is polluted! | 1 |
| Seeing a plastic bottle in the water as we crossed | 1 |
| Seeing glass on the beach | 1 |
| Seeing pipes from house coming down cliff | 1 |
| Seeing the amount of people and the potential for littering and/or feeding wild birds | 1 |

| | |
|---|---|
| Signs about bacteria | 1 |
| Signs about water, bits of trash | 1 |
| Smell of dead seal, yellow jackets | 1 |
| Smell of latrines next to trail. | 1 |
| Smoking on the beach, trash in bushes | 1 |
| Some dogs off leash | 1 |
| Some garbage (cigarette butts) | 1 |
| Some garbage on beach | 1 |
| Some garbage on the beach | 1 |
| Some one did not clean up after their "dog do" | 1 |
| Some smells! | 1 |
| Some trash | 1 |
| Someone's cell phone | 1 |
| Something wrong with the water | 1 |
| Sound from the construction of a nearby house | 1 |
| Stream leading to ocean- contaminated | 1 |
| That we couldn't go in the water | 1 |
| The beach is crowded | 1 |
| The beach was a mess | 1 |
| The bee's | 1 |
| The black pipes coming down the hill | 1 |
| The cold H2O leash law | 1 |
| The contaminated water surrounding beach | 1 |
| The dead sea lion/ birds | 1 |
| The dirt path leading to hilltop | 1 |
| The dusty parking lot | 1 |
| The filth in Redwood Creek | 1 |
| The foggy weather- not a clear day @ all & very cold | 1 |
| The garbage cigarette butts dog feces and other filth left behind by visitors | 1 |
| The junk left behind | 1 |
| The leash requirement | 1 |
| The narrow board walks entrance to the beach. | 1 |
| The parking/ tourist | 1 |
| The polluted water | 1 |
| The port-a-potties need cleaning | 1 |
| The portable toilets | 1 |
| The portable restrooms | 1 |
| The rest room | 1 |
| The restrooms | 1 |
| The sand (I don't like sand) | 1 |
| The signs saying to "avoid contact with water" | 1 |
| The threat of poison oak, sweating | 1 |
| The toilets | 1 |
| The trash | 1 |

| | |
|---|---|
| The trash & left over wood from beach ties | 1 |
| The trash (human) | 1 |
| The walk up hill | 1 |
| The warning about the water quality | 1 |
| The warning sign to avoid contact with water | 1 |
| The water danger (not safe) | 1 |
| The weather | 1 |
| The wind | 5 |
| The wind | 1 |
| The wind, sand in everything | 1 |
| Tight parking | 1 |
| Toilets | 1 |
| Too many dogs | 1 |
| Too many fishing boats | 1 |
| Too many horse shit | 1 |
| Too many people | 1 |
| Too much wind | 1 |
| Too windy | 1 |
| Traffic | 2 |
| Trash- beach looks not cared for- dead sea lion | 1 |
| Trash | 6 |
| Trash & debris littering the beach | 1 |
| Trash by idiots | 1 |
| Trash left behind | 1 |
| Trash left by tourists | 1 |
| Trash on beach | 2 |
| Trash on beach, loose dogs!! Stinky toilets | 1 |
| Trash on beaches. High tides | 1 |
| Trash on the beach | 3 |
| Trash on the beach | 1 |
| Trash on the beach, bacteria in the water | 1 |
| Trash on the beach, parking | 1 |
| Trash on the ground, worry about broken glass bottles | 1 |
| Trash people. Dirty water warning | 1 |
| Trash, loose dogs | 1 |
| Very windy | 1 |
| Warning sign against water contact | 1 |
| Watching people swim even though it said bacteria | 1 |
| Water contamination | 1 |
| Water had bacteria warning | 1 |
| Water pollution | 1 |
| Water quality | 2 |
| Water quality detracting; birds, lunch area. | 1 |
| Weather- bacteria warning | 1 |
| Weather- too foggy | 1 |

| | |
|--|----|
| Weather | 1 |
| What did they do to the natural beauty? | 1 |
| Wind-cold-fog | 1 |
| Wind | 17 |
| Wind & sand in mouth beer bottles and beer cans on beach | 1 |
| Wind + dirty restrooms | 1 |
| Wind blowing sand everywhere | 1 |
| Wind to strong for relaxing time | 1 |
| Wind with the sound | 1 |
| Wind! | 1 |
| Wind, bacterial warnings about water cleanliness | 1 |
| Wind, running dogs | 1 |
| Wind, sand | 1 |
| Wind. Hairy nude men. Super stinky | 1 |
| Wind/ porta-potties | 1 |
| Wind/sand in our mouths/eyes | 1 |
| Windy- too cold to swim | 1 |
| Windy | 1 |
| Would like to run dog off leash (This used to be a frequented dog beach) | 1 |
| Yapping dogs | 1 |
| Yellow jackets | 1 |

Management improvements

| Q 5c. If you could ask the National Park Service to change something about the way they manage Muir Beach, what would you ask them to do? | |
|---|-----------|
| | Frequency |
| -Clean up (beer bottles) | 1 |
| "Contaminated water" sign | 1 |
| 1) Better warning signs Re: e-coli count/ don't swim | 1 |
| 1) Nothing except limiting commercial tours here | 1 |
| A few more picnic tables | 1 |
| A little more cleanly, up. Don't like rocks and fire pits | 1 |
| Actually enforcing the leash law would be nice | 1 |
| Add feet rinsing stations | 1 |
| Add garbage cans on beach | 1 |
| Add one or two trash cans on beach area | 1 |
| Add place to wash hands, near toilets | 1 |
| Additional beach clean up days | 1 |
| All of above | 1 |
| Allow a store | 1 |
| Allow beach camping | 1 |
| Allow dogs off leash | 1 |
| Allow dogs off leash in designated areas | 1 |
| Allow dogs off leash near beach/ water only or has specific day allowed | 1 |

| | |
|--|---|
| off beach | |
| Allow dogs under owner control to go on the beach off leash | 1 |
| Allow fires at night | 1 |
| An area of potable water for drinking/washing | 1 |
| Bacteria warnings in several languages | 1 |
| Bacterial loads on water | 1 |
| Ban dogs from beach | 1 |
| Ban dogs. Either restore the eroded trail above the south side of the beach or close it. | 1 |
| Bathroom | 1 |
| Bathrooms | 1 |
| Bathrooms on beach | 1 |
| Bathrooms; beach litter | 1 |
| Be less strict about being nude on the beach – more trashcans, showers on the beach, more parking lots | 1 |
| Better (rear) bathroom- be sure dogs on leash at all times needs enforcement | 1 |
| Better bathrooms | 2 |
| Better bathrooms, changing rooms, BBQ on beaches | 1 |
| Better restrooms | 1 |
| Better restrooms instead of porta-potties | 1 |
| Better signs to beach | 1 |
| Bigger picnic area? With more shade advisory signs | 1 |
| Can't think of anything | 1 |
| Change it back to off leash | 1 |
| Change the leash requirement to one being voice control | 1 |
| Charge parking fee | 1 |
| Check how visitors take care of the lead | 1 |
| Clean bathrooms | 1 |
| Clean beach | 1 |
| Clean H2O | 1 |
| Clean it up | 1 |
| Clean it up, keep it clean | 1 |
| Clean more the shore | 1 |
| Clean the beach. Install more garbage cans | 1 |
| Clean the toilets | 1 |
| Clean toilets | 1 |
| Clean trash | 1 |
| Clean up | 1 |
| Clean up beach & water | 1 |
| Clean up beach, remove charcoal pits | 1 |
| Clean up more | 1 |
| Clean up sea weed | 1 |
| Clean up stream | 1 |
| Clean up the rest room | 1 |

| | |
|--|---|
| Clean up the rubbish | 1 |
| Clean up the still H2O w/ bacteria sometimes parking is an issue | 1 |
| Clean up the water | 1 |
| Clean up the water bacteria level | 1 |
| Clean up the water run off area; get entrance on both sides of parking lot | 1 |
| Clean water ravines | 1 |
| Clean, permanent restrooms | 1 |
| Cleaner | 2 |
| Cleaner bathrooms | 1 |
| Cleaner sand | 1 |
| Cleaner water | 1 |
| Cleaning | 1 |
| Clear the rocks out of the sand. | 1 |
| Clearer water- no warning signs about bacteria | 1 |
| Come clean up of the human rubbish | 1 |
| Continue to do a wonderful job | 1 |
| Continue to maintain | 1 |
| Dangerous water at back of beach | 1 |
| Deal with the traffic jams and traffic- help people enjoy just being with nature | 1 |
| Didn't spend enough time here to have an opinion | 1 |
| Dogs ok pave parking lot | 1 |
| Doing a fine job (I wish the road had fewer pot holes) | 1 |
| Don't know | 1 |
| Don't know | 1 |
| Don't let it get any more organized. We need some WATER (a drinking fountain or something like that, there used to be one) | 1 |
| Don't know | 1 |
| Drinking water access | 1 |
| Educate people more about sea life/protection | 1 |
| Either enforces dog owner behavior (I.e. clean up after your dog.) or BANN dog's altogether. Issue citations & fines for littering | 1 |
| Eliminate leash law | 1 |
| Empty portable toilets more frequently; more trash pick-up | 1 |
| Encourage people to not leave garbage or other evidence of the use of the beach | 1 |
| Encourage users to leave area cleaner than found! | 1 |
| Enforce dog or leash law better yet NO dogs at all or confined to certain area | 1 |
| Enforce leash law rules | 1 |
| Enforce leash laws | 1 |
| Enforce the leash laws fine them (for leaving the waste) | 1 |
| Entrance to beach/ beach access | 1 |
| Fix the parking lot/ more parking | 1 |
| Free admission | 1 |

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|---|---|
| Get the dogs off the beach | 1 |
| Get the drinking fountain working again | 1 |
| Good job | 1 |
| Hard to tell from our visits, perhaps a few more logs to sit upon | 1 |
| Have a sign saying there's a nude beach | 1 |
| Have water fountain | 1 |
| Heavily fine litters | 1 |
| Honestly ticket when there are too many people here | 1 |
| How about solar compost toilets like the have @ little Yosemite valley? | 1 |
| I like it fine the way it is. | 1 |
| I think they're doing a fine job | 1 |
| I wouldn't know | 1 |
| Improve above | 1 |
| Improve H2O quality please so swimming is safe | 1 |
| Improve log stairs to hilltop | 1 |
| Improve the bathroom situation MONITOR for cleanliness | 1 |
| Improve the parking lot | 1 |
| Improve water quality | 1 |
| Improve water, mitigate dog poop | 1 |
| Install modern bathrooms/showers | 1 |
| It's fine | 1 |
| It's fine just the way it is | 1 |
| It's great- dog leash law - at least on right and of beach- maybe build a decent bathroom | 1 |
| It's ok | 1 |
| It's very nice as it is | 1 |
| Just keep it as clean as possible | 1 |
| Keep clean | 1 |
| Keep dogs off the beach | 1 |
| Keep doing it- keep dogs on leash or perfect value | 1 |
| Keep doing what your doing | 1 |
| Keep Gulch access for all types of recreation | 1 |
| Keep it clean (as it usually is) | 1 |
| Keep it cleaner, re: animal carcasses, etc. | 1 |
| Keep it pristine | 1 |
| Keep Natural | 1 |
| Keep people from letting their animals roam free. | 1 |
| Keep the septic seepage from dumping in the creek | 1 |
| Keep toilets cleaner | 1 |
| Keep tourist to a minimum | 1 |
| Keep up the good work | 1 |
| Keep up the toilets, root out causes of pollution | 1 |
| Leave it alone. Your policies have changed over the years- I.e. 20 yrs ago you wanted to pull out the dunes- now you are protecting them... | 1 |
| Legislate that no sewerage can be dumped into the ocean | 1 |

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|---|---|
| Less parking- or more lots elsewhere | 1 |
| Less rocky parking lot | 1 |
| Less smelly restrooms- more BBQ areas near parking | 1 |
| Let dogs run free Don't advertise the presence of the beach | 1 |
| Let the dogs run with out leashes | 1 |
| Lifeguards | 1 |
| Lift the leash law for dogs | 1 |
| Like the way it's managed | 1 |
| Limited access to sensitive natural areas/ educates the public. | 1 |
| Limited visitors | 1 |
| Little- prevent any development | 1 |
| Make a permanent bathroom facilities | 1 |
| Make it like it used to be! | 1 |
| Make it more natural & less playground | 1 |
| Make restrooms nicer | 1 |
| Make some fire pits | 1 |
| Make trails safer | 1 |
| Manage crowd: Marin. Residents free/sticker/pass Tourists charged- when there are issues, usually tourists not taking care or bringing unmanageable dogs. | 1 |
| Manage the relationship of "beach" style recreation | 1 |
| Maybe a trash can on the beach, let dogs off leash | 1 |
| Monitor trash accumulation, be more liberal about | 1 |
| More candy | 1 |
| More garbage receptacles | 1 |
| More open dog policy | 1 |
| More organized parking- some people parked the wrong way so both less spaces | 1 |
| More parking | 2 |
| More signs/info about wildlife & conservation | 1 |
| More sun | 1 |
| More trails | 1 |
| More waitebeshes | 1 |
| Mountain, the beach, trash + bathrooms | 1 |
| Move latrine- trash cans closely to beach (to encourage people to throw away their own trash instead of leaving_ | 1 |
| Nothing different just fine those damn polluters | 1 |
| Nicer bathrooms | 1 |
| No | 1 |
| No campfires | 1 |
| No change | 2 |
| No complaints | 1 |
| No dogs | 3 |
| No dogs clean up debris | 1 |
| No leash for dogs | 1 |

| | |
|---|----|
| No opinion | 3 |
| No spigot of fresh water like there used to be | 1 |
| None | 1 |
| Not able to answer | 1 |
| Nothing | 1 |
| Nothing-oh- another fire pit | 1 |
| Nothing | 19 |
| Nothing | 2 |
| Nothing comes to mind | 1 |
| Nothing good job | 1 |
| Nothing great just how it is! | 1 |
| Nothing it's great | 1 |
| O.K. as is | 1 |
| Ok | 1 |
| Open 24 hrs | 1 |
| Open gate earlier in a.m. | 1 |
| Overnight camping | 1 |
| Parking needs improved on weekends | 1 |
| Patrol to advise people, not to litter | 1 |
| People here! | 1 |
| Permanent toilets | 1 |
| Permanent bathrooms | 1 |
| Pick up dead animals | 1 |
| Pick up garbage | 1 |
| Pick up the trash | 1 |
| Pick up trash | 1 |
| Place some garbage cans near the beach for refuse | 1 |
| Place trash bins on beach | 1 |
| Please keep it the same. And keep it free! | 1 |
| Porto potties | 1 |
| Pretty good the way it is | 1 |
| Prohibit dogs | 1 |
| Provide more trash containers | 1 |
| Provide water to wash hands with | 1 |
| Put garbage cans on the beach, discreetly of course | 1 |
| Put more information on wildlife & your conservation program. (Well done for the clearly marked bridge route) | 1 |
| Put trash containers closer to beach | 1 |
| Put up signs urging people to clean up after themselves | 1 |
| Rangers less militant, more community, environment | 1 |
| Real bathrooms. At least clean. | 1 |
| Real restrooms | 1 |
| Regular rest rooms | 1 |
| Remedy item above | 1 |
| Remove dead sea lion | 1 |

| | |
|---|---|
| Remove the parking lot and replace the wetlands | 1 |
| Repair bluff trail, create fisherman's trail | 1 |
| Rest rooms a bit primitive | 1 |
| Restore the parking lot to it's on site status | 1 |
| Restore wet lands | 1 |
| Restrict more areas, protect the ecosystem | 1 |
| Restrict usage | 1 |
| Restroom at Tennessee trail beach | 1 |
| Restroom facilities | 1 |
| Running water for rinsing off | 1 |
| Seemed great to me | 1 |
| Shuttle/public transit | 1 |
| Significantly improve restroom management/cleanliness | 1 |
| Signs | 1 |
| Signs should be clear there's parking | 1 |
| Signs to officially designate clothing-optional | 1 |
| Some into on the rock pool vegetation | 1 |
| Some part of the beach open to dogs w/o leashes | 1 |
| Stay open later | 1 |
| Strictly enforcing leash rules | 1 |
| Tables & benches for picnics | 1 |
| The contaminated water surrounding beach | 1 |
| The parking lot could have a better more flexible layout w/an increased number of access points- the one way out is too confusing | 1 |
| The paths to the beach | 1 |
| There's not much "organization" to the beach as at Stinson | 1 |
| To make it pollution water contact | 1 |
| Trash can near entry | 1 |
| Trash cans more often | 1 |
| Trash collecting, and bins | 1 |
| Trash container on the beach bigger signs for the quality of water | 1 |
| Water fountain | 1 |
| Water fountain would be great, permanent restrooms, signage to address | 1 |
| Water quality control | 1 |
| Widen the path, change the entrance off pacific & enlarge the parking lot & put nearer the hill entrance houses | 1 |

Changed for the better

| Please note any things you think might have changed for the better since your last visit | |
|--|-----------|
| | Frequency |
| Access | 3 |
| Bathrooms | 1 |
| Bathrooms and walkways to protect marsh | 1 |
| Beach cleaner | 1 |

| | |
|---|---|
| Better access using boardwalks | 1 |
| Better bridge- more parking | 1 |
| Better control of human access, preservation of dune | 1 |
| Better path to bench | 1 |
| Better road leading to parking lot | 1 |
| Better trash cans- | 1 |
| Boardwalk | 1 |
| Bridge- | 1 |
| Bridge | 1 |
| Bridges | 1 |
| Bringing my dog | 1 |
| Can't think of anything | 1 |
| Central entrance causeway | 1 |
| Clean- nice to see a guy picking up trash. Restoration near parking lot | 1 |
| Cleaned up area around parking lot. Let it return | 1 |
| Cleaner | 4 |
| Cleaner habitat is being repaired. | 1 |
| Cleaner shoreline | 1 |
| Closed access that van thru wetland | 1 |
| Don't remember | 2 |
| Dues are getting much bigger | 1 |
| Dune restoration | 1 |
| Everything seems the same | 1 |
| Experience | 1 |
| Few people on beach, more sand on rocks (summer) | 1 |
| Fewer people | 1 |
| Fine trail | 1 |
| Fire pits | 1 |
| Fragile areas protected more | 1 |
| Garbage | 1 |
| Garbage cans | 1 |
| Good bathrooms and trails | 1 |
| Good signage- new bridge- more recycle bins | 1 |
| Green section growing better | 1 |
| Habitat restoration | 1 |
| Haven't noticed | 1 |
| I actually ended up liking the boardwalks | 1 |
| I liked it better when it was simpler | 1 |
| I was able to go into the water before | 1 |
| It has been 5 years since last visit | 1 |
| Keeping off dunes | 1 |
| Last visit only 1 day ago | 1 |
| Last, visit only two weeks ago-nothing/ change over the years- removed garbage cans from beach- excellent move. Also closing path across creek- excellent habitat restoration | 1 |

| | |
|---|---|
| Less trample growth | 1 |
| Less trash | 1 |
| Limited access to environmentally endangered area's | 1 |
| Looks cared for | 1 |
| More greenery | 1 |
| More natural growth | 1 |
| More people but the beach is still clean | 1 |
| More signs about native habitat | 1 |
| More vegetation | 1 |
| More wetland | 1 |
| New bridge | 1 |
| New path/ restore project | 1 |
| New paths | 1 |
| New walking with bridge | 1 |
| New walkway? Cool. | 1 |
| Nice that the water is blocked on | 1 |
| Nice bridge | 1 |
| Nice bridge good to have fenced off areas protected | 1 |
| Nice new trail to beach, plastic lumber is great! | 1 |
| No | 3 |
| No change | 1 |
| No change since last week | 1 |
| None | 5 |
| Not changed | 1 |
| Not much except weather | 1 |
| Not much garbage | 1 |
| Nothing | 4 |
| Nothing has changed in two weeks | 1 |
| Overall improvements picnic area + walks | 1 |
| Parking | 1 |
| Parking lot and facilities | 1 |
| Parking lot is better | 1 |
| Parking, trails | 1 |
| Paths look better | 1 |
| Plastic boardwalk- very nice | 1 |
| Plastic lumber is nice | 1 |
| Protected area barrier needs repair | 1 |
| Ramp sidewalks | 1 |
| Recover the merst | 1 |
| Restoration | 1 |
| Restoration work in beach is excellent | 1 |
| Restored habitat | 1 |
| Restriction of Natural Environment | 1 |
| Returning wetlands/meadows | 1 |
| Roped-off area | 1 |

| | |
|--|---|
| Same | 6 |
| Same as before | 1 |
| Same; Was here recently | 1 |
| Seems cleaner | 1 |
| Seems cleaner since I came 7 yrs ago. I appreciate the restoration of salmon run to Muir Woods | 1 |
| Seems less crowded (it was 5 yrs ago) | 1 |
| Seems the same | 3 |
| Some | 1 |
| Taking care to restore native growth | 1 |
| The bridge is made from recycled materials | 1 |
| The causeway to the bridge/ new bridge | 1 |
| The walk way to the beach | 1 |
| The walkway entrance | 1 |
| The walkways, fencing, trash bins. | 1 |
| The weather | 1 |
| Today Redwood Creek does not dump into the ocean | 1 |
| Too long ago to compare | 1 |
| Two long ago | 1 |
| Unknown | 1 |
| Visited for the first time yesterday 8/8/03 | 1 |
| Walk way bridge | 1 |
| Walkway | 1 |
| Walkway to beach added | 1 |
| Walkway/ bridge; cleaner | 1 |
| Walkways | 1 |
| Warmer | 1 |
| Water temperature | 1 |
| Weekly | 1 |
| Wetlands are looking great | 1 |
| Working on saving the trails & surrounding dunes | 1 |

Changed for the worse

| | Frequency |
|--|-----------|
| "Contaminated water" sign | 1 |
| (More dead animals/ high e-coli count) | 1 |
| Access has gotten more difficult crossing the foot | 1 |
| Bacteria | 2 |
| Bad water in creek | 1 |
| Bathroom | 1 |
| Bathrooms, trash | 1 |
| Bathrooms; beach litter | 1 |
| Beach a bit dirty & littered | 1 |
| Beach access close to SFO | 1 |

| | |
|--|---|
| Bulletin boards- too much "stuff" has been put in. | 1 |
| Closed foot trails | 1 |
| Crowds | 1 |
| Crowds! Parking | 1 |
| Dead rat on beach | 1 |
| Didn't notice | 1 |
| Direct access walk & bridge are closed | 1 |
| Dirtier | 1 |
| Dirtier | 1 |
| Dirty | 1 |
| Disgusting overfull portable toilets | 1 |
| Dog owners are not picking up poop | 1 |
| Dog problem gets increasingly worse | 1 |
| Don't remember | 1 |
| Everything seems the same | 1 |
| I can't go in the water | 1 |
| I did notice more garbage- paper | 1 |
| Improve picnic area | 1 |
| It's setting | 1 |
| It appears as though there is more trash on beach | 1 |
| Less access to beach from lot | 1 |
| Liked path closer to cliff better. No water fountain | 1 |
| Litter | 1 |
| Longer walk to beach | 1 |
| Looks unkempt | 1 |
| Miss the BBQ area | 1 |
| Morning garbage/ broken beer glass bottles in the sand | 1 |
| More dogs | 1 |
| More broken glass | 1 |
| More construction, more boats | 1 |
| More dogs | 1 |
| More garbage | 1 |
| More horses on beach | 1 |
| More houses | 1 |
| More houses above beach | 1 |
| More litter | 1 |
| More people | 3 |
| More pollution from residents | 1 |
| No | 5 |
| No | 1 |
| No change since last week | 1 |
| No more water fountain | 1 |
| No opinion | 1 |
| No place to clean feet | 1 |
| None | 8 |

| | |
|--|---|
| Not noticeable | 1 |
| Not sure | 1 |
| Nothing | 1 |
| Nothing | 7 |
| NOTHING | 1 |
| Notice a lot of "weed" plants around the trail | 1 |
| Number of people | 1 |
| On leash laws | 1 |
| Only 1 access, no water fountain | 1 |
| Over the years more garbage | 1 |
| Parking | 1 |
| Parking was harder (again not used to coming in summer) | 1 |
| Pool | 1 |
| Quiet & remote | 1 |
| Same | 5 |
| Sand is dirtier | 1 |
| Saturday too many people | 1 |
| Seems the same | 1 |
| Short access route closes; with only one bridge, can be dangerous (due to rails) when more than one dog crossing | 1 |
| The contaminated water | 1 |
| The destroyed natural rocks- beach | 1 |
| The dog thing... | 1 |
| The entrance is too small on busy days | 1 |
| The water is not so good for swimming | 1 |
| There are still nudists | 1 |
| There is no help here | 1 |
| Toilets are worse | 1 |
| Too many people | 1 |
| Too many dogs, not picking up scat | 1 |
| Too much stuff everywhere | 1 |
| Trails trashed | 1 |
| Trash | 1 |
| Trash on beach | 1 |
| Water access | 1 |
| Water condition | 1 |
| Water contamination | 1 |
| Water quality | 1 |
| Water quality in the stream | 1 |
| Water quality, number of people | 1 |
| Weather | 1 |

Value most

Q 5e. What do you value most about your visit to Muir Beach?

| | Frequency |
|---|-----------|
| (a) Above | 1 |
| (See 5a supra) the astonishing beauty of walking, the trail right over the ocean's edge | 1 |
| A natural rocky beach, lot of variety good tide pools | 1 |
| Ability to visit close to my home | 1 |
| Access to beach | 2 |
| Access to nature | 1 |
| Access to underdeveloped branch | 1 |
| Accessibility | 1 |
| Accessibility, scenery | 1 |
| Air | 1 |
| Allowing dogs & the trails | 1 |
| Amazing beauty w/in 1 hr of home | 1 |
| Ample parking on a day when Muir beach was 1/2 full | 1 |
| Appreciating the beauty of nature | 1 |
| Away from home | 1 |
| Beach | 1 |
| Beach & protected habitat areas | 1 |
| Beach is clean! | 1 |
| Beautiful beach & weather | 1 |
| Beautiful scenery | 1 |
| Beautiful site | 1 |
| Beautiful surroundings close to city | 1 |
| Beautiful, close, not too crowded before 9 AM | 1 |
| Beautiful; non-commercial nature/ocean; free | 1 |
| Beauty | 2 |
| Beauty & peacefulness & cleanliness | 1 |
| Beauty and few crowds | 1 |
| Beauty and pristine quality of the beach | 1 |
| Beauty of wetlands | 1 |
| Beauty, Pelican Inn | 1 |
| Beauty. Proximity to home. Luid sack. No snack stands. | 1 |
| Beer @ Pelican Inn | 1 |
| Being at the ocean- nude | 1 |
| Being here | 1 |
| Being outside at gorgeous public beach/ nude sunbathers | 1 |
| Being there | 1 |
| Birds did my part | 1 |
| Calm setting | 1 |
| Clean air, relatively clean beach | 1 |
| Clean beach/ natural beauty | 1 |
| Clean beach- dogs allowed | 1 |
| Clean beach | 1 |
| Clean beach clean water | 1 |

| | |
|---|---|
| Clean beach, not too many people | 1 |
| Clean, nice area, good plant habitat area | 1 |
| Cleanliness | 1 |
| Cleanliness of area; garbage/recycle; FREE! | 1 |
| Close proximity to home | 1 |
| Close to city | 1 |
| Close to home | 1 |
| Close to home not commercial, can have dogs | 1 |
| Close to home, peaceful, not as crowded, small beach | 1 |
| Close to M.V. | 1 |
| Close to Zen green gulch | 1 |
| Closeness to E. Marin County | 1 |
| Company | 1 |
| Connection to nature | 1 |
| Convenience | 1 |
| Destination of hike- turn around point | 1 |
| Dog freedom beauty | 1 |
| Dog friendly | 1 |
| Dogs off leash | 1 |
| Dogs, BBQ, Family atmosphere | 1 |
| Ease of access | 2 |
| Easily accessible and clean | 1 |
| Easily accessible beach | 1 |
| Easy access to beach/water; close to home; nice trails; allows dogs | 1 |
| Easy parking access to beach | 1 |
| Easy to get here- fairly secluded area | 1 |
| Enclose beach w/rocks | 1 |
| Enjoying nature | 1 |
| Everything | 2 |
| Exercise | 1 |
| Exploring | 1 |
| Families, dogs, friendly beach | 1 |
| Feels more private | 1 |
| Fewer people, great views | 1 |
| Finding out it's so close to the city of San Fran | 1 |
| Fire places | 1 |
| Free & quiet | 1 |
| Freedom to bring dogs and get naked | 1 |
| Freedom to run dogs | 1 |
| Fun time at beautiful beach with family | 1 |
| Gathering with friends | 1 |
| Great place to picnic | 1 |
| Having open space + public access to the beach | 1 |
| Having public access to a nice beach | 1 |
| Hikes view | 1 |

| | |
|--|---|
| Hiking | 2 |
| Hiking and good company | 1 |
| Hiking trails & a nice beach that allows bonfires | 1 |
| Hiking, time in nature | 1 |
| I cannot begin | 1 |
| I live here & it's a beautiful day. | 1 |
| It's beautiful it's small (not like Coney Island) | 1 |
| It's close to home | 1 |
| It's free + the nude beach | 1 |
| It's home, safe, nice people, variety of choices | 1 |
| It is a reasonable distance for us to travel with | 1 |
| It is free & dogs are allowed | 1 |
| It is here! And open to the public | 1 |
| It is not the city | 1 |
| It still exists | 1 |
| It was a fun diversion and easy to reach | 1 |
| It was a short visit after a long drive | 1 |
| Its beauty | 1 |
| Its natural habitat and views | 1 |
| Its presence | 1 |
| Just to see it for the first time | 1 |
| Knowing no commercial stuff has been allowed to come | 1 |
| Knowledge at a nice beach, even if it's a bit windy | 1 |
| Lack of people | 1 |
| Leaving | 1 |
| Letting dogs go free & getting naked | 1 |
| Local get away | 1 |
| Location | 1 |
| Lovely place | 1 |
| Low key | 1 |
| Managed habitat | 1 |
| Memory | 1 |
| My dog really likes it | 1 |
| Natural beach | 1 |
| Natural beauty- waves | 1 |
| Natural beauty | 1 |
| Natural beauty | 1 |
| Natural beauty and friendly people | 1 |
| Natural land seascape. Minimal development | 1 |
| Natural scenery | 1 |
| Natural setting | 1 |
| Natural setting, path gone to beach | 1 |
| Nature | 2 |
| Nature | 1 |
| Nature + good parking | 1 |

| | |
|---|---|
| Nature beauty, lack of commercial activity | 1 |
| Nature. | 1 |
| Nature/hiking | 1 |
| Nearness to my home | 1 |
| Never been here before, have been curious about Nor Cal beaches | 1 |
| Nice beach | 1 |
| Nice sandy beach- fairly clean | 1 |
| No businesses at this beach, wildlife | 1 |
| No commercial services nearby, free roaming dogs | 1 |
| Not being harassed by anyone | 1 |
| Not overly crowed today, good weather | 1 |
| Not too crowded not too "developed" | 1 |
| Nude section | 1 |
| Ocean exposure easy access for kids friendly people | 1 |
| Ocean view & beauty | 1 |
| Ocean view/ access | 1 |
| Ocean, sun, view | 1 |
| Ocean/ nature | 1 |
| Open access | 1 |
| Open space | 1 |
| Openness | 1 |
| Pacific ocean experience- view | 1 |
| Peace | 1 |
| Peace | 1 |
| Peace & ocean & air | 1 |
| Peace & quiet | 1 |
| Peace and quiet | 1 |
| Peace/tranquility | 1 |
| Peaceful | 2 |
| Peaceful spot | 1 |
| Peaceful views | 1 |
| Peaceful, great views, free to nude sunbathing | 1 |
| Peaceful, relatively, sheltered beach I enjoyed not having a snack bar around | 1 |
| Peaceful nice bay | 1 |
| Peacefulness | 1 |
| Pelican Inn & extra special Bitter Beer on tap. | 1 |
| Playtime for all | 1 |
| Pretty | 1 |
| Pristine | 1 |
| Privacy | 1 |
| Protection of the environment | 1 |
| Proximity to home | 1 |
| Proximity & tidal pools | 1 |
| Proximity to home | 2 |

| | |
|---|---|
| Proximity to home | 1 |
| Purity Natural | 1 |
| Quiet, ocean | 1 |
| Quiet | 1 |
| Quiet + beautiful | 1 |
| Quiet place from Morin | 1 |
| Quiet serenity, air quality, natural/underdeveloped | 1 |
| Quiet wonderful beach | 1 |
| Quiet, natural, undeveloped | 1 |
| Quiet; sound of sea; people enjoying | 1 |
| Quietude | 1 |
| Relative calm/quiet | 1 |
| Relative smallness, no crowds | 1 |
| Relaxation | 2 |
| Relaxation 0 Radios! | 1 |
| Relaxing | 2 |
| Relaxing, sound of waves | 1 |
| Remote | 1 |
| Remoteness | 1 |
| Scenery | 4 |
| Scenery, solitude | 1 |
| Scenic view | 1 |
| Security, pleasant visitors, appreciate environment, pleasant survey contractor from U of V | 1 |
| Seeing different landscapes | 1 |
| Serenity | 4 |
| Size= small and closeness to home (mill valley) | 1 |
| Small | 1 |
| Small beach & cliffs | 1 |
| Small beach, beauty warmness of ocean | 1 |
| Small communal feeling | 1 |
| Small crowds & hiking trails | 1 |
| Small environment & no overcrowding | 1 |
| Solidarity | 1 |
| Solitude | 2 |
| Sound of the ocean, fresh air & sunshine | 1 |
| Still quiet/solitude | 1 |
| Still some wild | 1 |
| Stroll on beach | 1 |
| Sun/surf | 1 |
| Sustaining the environment | 1 |
| That it's here | 1 |
| That it's not heavily developed (I.E. café, souvenir shop) | 1 |
| That it exists and is beautiful | 1 |
| That it is being kept as natural as possible | 1 |

| | |
|--|---|
| That it is largely unchanged from the way it was 30 years ago | 1 |
| That my pets can come | 1 |
| That the location has been set aside for public us | 1 |
| That we can bring dogs and use the nude beach | 1 |
| The ability to visit such a magnificent beach within 1 hour of San Francisco | 1 |
| The ability to walk and explore in quiet | 1 |
| The access to a great beach | 1 |
| The beautiful environment | 1 |
| The beauty | 1 |
| The beauty and cleanness of the place | 1 |
| The beauty and serenity | 1 |
| The beauty of the beach | 1 |
| The beauty of the place | 1 |
| The clean water | 1 |
| The combination of water tide and sand and look into the sea | 1 |
| The community | 1 |
| The cool views | 1 |
| The easy access | 1 |
| The hiking | 1 |
| The natural environment | 1 |
| The natural undeveloped scenery protected from evidence of man | 1 |
| The nature | 1 |
| The ocean | 3 |
| The ocean! | 1 |
| The opportunity to walk on beach | 1 |
| The peace | 1 |
| The peace and quite | 1 |
| The peacefulness of being on the sand & out near the ocean | 1 |
| The place | 1 |
| The preservation of the habitat | 1 |
| The pristine look of the environment | 1 |
| The pristine beauty of the beach? Headlands | 1 |
| The proximity | 1 |
| The proximity to S.F. and Green Gulch | 1 |
| The pure beauty | 1 |
| The quiet | 1 |
| The scenery | 1 |
| The scenic beauty, the wide beach | 1 |
| The scenic views and natural state of the habitat | 1 |
| The seclusion | 1 |
| The serenity of the ocean | 1 |
| The smell of the sea, sounds, & beauty | 1 |
| The smell of the trees and the beach | 1 |
| The various landscape | 1 |

| | |
|--|---|
| The view | 2 |
| The view | 1 |
| The view and the hiking trails and the ocean | 1 |
| The view! | 1 |
| The weather | 1 |
| The wildlife | 1 |
| The wind, + the "peoples beach" | 1 |
| This beach is nicely kept | 1 |
| This survey | 1 |
| Tide pools | 1 |
| Tide pools for my son | 1 |
| To have enjoyed the beauty of this site | 1 |
| Trail walks, relatively few people | 1 |
| Tranquility | 1 |
| Unaltered natural surroundings | 1 |
| Unspoiled beauty, solace | 1 |
| Unspoiled by commercial development | 1 |
| Unspoiled coast area | 1 |
| Unspoiled natural setting | 1 |
| Very clean & quiet | 1 |
| Very natural | 1 |
| View- rocky coast and crashing waves. Serene | 1 |
| View | 2 |
| View, footpaths | 1 |
| View, scenic of the area | 1 |
| Views | 2 |
| Views, size | 1 |
| Visit nature at ocean | 1 |
| Vista, hiking, nude beach | 1 |
| Vistas & ocean experience | 1 |
| Vistas, not too crowded | 1 |
| Walking through Green Gulch | 1 |
| Watching waves & birds/ allow dogs | 1 |
| Water | 1 |
| We had a picnic off of one of the trails | 1 |
| Wildlife | 1 |
| Wildlife | 1 |
| Quietness, serenity | 1 |

Important qualities

| Q 5f. What do you consider to be the most important qualities of Muir Beach? | |
|--|-----------|
| | Frequency |
| -Location- natural beauty | 1 |
| -Scenery, view | 1 |

| | |
|--|---|
| A good family beach | 1 |
| Ability to bring dogs & get naked | 1 |
| Access from the city, sheltered | 1 |
| Accessible, free, nude beach | 1 |
| Access from city | 1 |
| Accessibility | 1 |
| Accessibility, lack of development | 1 |
| Accessible to Bay Areas nice beach | 1 |
| Access to the ocean | 1 |
| Air | 1 |
| Allowing dogs great trails | 1 |
| Atmosphere | 1 |
| Attractive, not too hot | 1 |
| Availability | 1 |
| Away from beaten track- plenty of parking- clean beach | 1 |
| Beach | 1 |
| Beach & ocean | 2 |
| Beach, tidepools, hiking on the bluff, dog friendly | 1 |
| Beach, trails shouldn't be developed any more | 1 |
| Beauty | 1 |
| Beautiful and accessible | 1 |
| Beautiful coastline | 1 |
| Beautiful location, nice views, good sun | 1 |
| Beautiful site and rocks around | 1 |
| Beautiful views/ trails | 1 |
| Beautiful, good hiking nearby, restoration of creek, wetland bird watching | 1 |
| Beauty- not crowded | 1 |
| Beauty | 5 |
| Beauty | 1 |
| Beauty and accessibility | 1 |
| Beauty and trail system | 1 |
| Beauty dogs being allowed, free not a popular as Stinson | 1 |
| Beauty proximity to Mill Valley | 1 |
| Beauty, lack of development | 1 |
| Beauty, location | 1 |
| Beauty, ocean, cleanliness | 1 |
| Beauty, proximity to trails | 1 |
| Beauty, rock formations | 1 |
| Beauty/ quiet | 1 |
| Being able to come here with my dog | 1 |
| Being able to let dogs off leash | 1 |
| Birds | 1 |
| Clean sand, pretty water, not too crowded | 1 |
| Clean – quiet | 1 |

| | |
|--|---|
| Clean | 3 |
| Clean beach | 1 |
| Clean beach, quiet | 1 |
| Clean environment, safe | 1 |
| Clean H2O | 1 |
| Clean quiet | 1 |
| Clean sand | 1 |
| Clean sand soft sand | 1 |
| Clean sand, clean water, nice trails | 1 |
| Clean water | 1 |
| Cleanliness | 1 |
| Cleanliness, habitats protected, no entrance fee, | 1 |
| Cleanliness, lack of overcrowding | 1 |
| Cleanliness/view | 1 |
| Clearness | 1 |
| Cliffs, water, clean | 1 |
| Close proximity, walking dogs | 1 |
| Close to home | 1 |
| Close to home, small scale, can have dogs | 1 |
| Close to major city, far enough for relaxing trip | 1 |
| Close to my house | 1 |
| Closeness to Mill Valley/ Nature + ocean | 1 |
| Coastline, preserved as much as possible | 1 |
| Community | 2 |
| Development is minimal, close to Mill Valley, beautiful setting enjoyable and changing throughout the year | 1 |
| Different natural habitat that is protected | 1 |
| Distance of parking lot from beach and closed off | 1 |
| Ditto e. | 1 |
| Dog beach | 1 |
| Dog run free | 1 |
| Dogs and people | 1 |
| Dogs, small beach, swimming | 1 |
| Easy access | 1 |
| Easy access/ free | 1 |
| Easy proximity-beauty-nude beach- dog friendly (used to be) | 1 |
| Enclosed, private, beach + cliffs | 1 |
| Environmental awareness- land & birds | 1 |
| Aesthetics | 1 |
| Everything | 1 |
| Family-friendly, dog-friendly, beauty, different eco, proximity to walking trails | 1 |
| Family friendly | 1 |
| Family Friendly | 1 |
| Fewer people, great views | 1 |

| | |
|---|---|
| Freedom | 1 |
| Fun | 1 |
| Generally not too busy | 1 |
| Generally quiet | 1 |
| Good clean area, and good habitat for life | 1 |
| H2O quality, nude section | 1 |
| H2O, beach, solitude, the beauty, the closeness | 1 |
| Habitat, closely: trails; safety; dog-access | 1 |
| Human condition or impact hasn't affected the beach yet | 1 |
| Intensely beautiful geography | 1 |
| Isolated & clean | 1 |
| It's a beautiful spot. | 1 |
| It's a nice beach | 1 |
| It's cleanliness + the cliffs | 1 |
| It's cliffy edge | 1 |
| It's distance from heavy commuter traffic | 1 |
| It's easy access | 1 |
| It's natural beauty | 1 |
| It's scenic beauty, its spiritual nature. | 1 |
| It's small + rocky + isn't developed | 1 |
| It allows you to contact the natural population of the environment | 1 |
| It is a natural place near a big city | 1 |
| It is clean | 1 |
| It is not a formal place | 1 |
| It is small and clean and has hiking areas that surround, Also public bathrooms that are maintained | 1 |
| It's a relatively unspoiled condition and public access to it | 1 |
| Its beauty and the natural habitat that surrounds it | 1 |
| Its natural beauty & its location | 1 |
| Its simplicity; ocean beach hills walking trails | 1 |
| Its size | 1 |
| Keeping the coastline as it was | 1 |
| Kind of private | 1 |
| Lack of convenience | 1 |
| Landscape vista | 1 |
| Locale | 1 |
| Location | 2 |
| Location & views | 1 |
| Location close to city | 1 |
| Location to home | 1 |
| Location, cleanliness | 1 |
| Location, natural beauty | 1 |
| Location, not many people | 1 |
| Lots of animals, easy walk | 1 |
| Mostly natural setting, not to much manmade fixtures | 1 |

| | |
|---|---|
| Mountains, water, hiking trails | 1 |
| Native beauty | 1 |
| Native vegetation, protected wildlife | 1 |
| Natural | 2 |
| Natural area- ability to be nude | 1 |
| Natural areas | 1 |
| Natural beauty | 1 |
| Natural beauty is accessible yet (hopefully) protected | 1 |
| Natural beauty, wildlife, location | 1 |
| Natural beauty | 1 |
| Natural coastline | 1 |
| Natural habitat | 1 |
| Natural habitats | 1 |
| Natural place close to populated area | 1 |
| Natural resources available to public | 1 |
| Natural scenery | 1 |
| Natural setting- no manipulations | 1 |
| Natural setting | 2 |
| Natural, relaxing, removed from cars | 1 |
| Natural. | 1 |
| Nature | 3 |
| Nature | 2 |
| Nature beauty | 1 |
| Nature, scenery | 1 |
| Nice clean sand and the coastal hills and a beautiful day | 1 |
| Nice people | 1 |
| Nice smooth sand | 1 |
| No opinion | 1 |
| Not commercialized & natural looking seashore. | 1 |
| Not overly crowded | 1 |
| Not too crowded | 2 |
| Ocean | 1 |
| Ocean beach area | 1 |
| On quiet day, birds, creek, lagoon are peaceful | 1 |
| Only natural sounds- people seem to respect each other | 1 |
| Open access to beach, lots of parking, toilets | 1 |
| Open air | 1 |
| Open space | 1 |
| Open to public | 1 |
| Openness | 1 |
| Peace, no homes | 1 |
| Peace/tranquility | 1 |
| Peaceful nice bay | 1 |
| Preservation of the creek | 1 |
| Previous answer | 1 |

| | |
|---|---|
| Pristine ocean | 1 |
| Privacy | 1 |
| Protected wildlife area | 1 |
| Proximity to home not too crowded | 1 |
| Proximity to my house, creek | 1 |
| Proximity, cleanliness & lack of crowds compared to Stinson | 1 |
| Proximity, relatively underdeveloped | 1 |
| Quiet | 1 |
| Quiet and peaceful | 1 |
| Quiet beautiful beach + hills | 1 |
| Quiet serenity, air quality, natural/undeveloped | 1 |
| Quiet, undeveloped beach area. | 1 |
| Recycling | 1 |
| Relax place. | 1 |
| Remote location | 1 |
| Rocks in water hike onto rocky beach | 1 |
| Rocks, accessibility, picnic area | 1 |
| Rocks/ natural setting | 1 |
| Rocky areas | 1 |
| Rocky coastline access to trails | 1 |
| Rustic/cove | 1 |
| Sand + water | 1 |
| Scenery | 3 |
| Scenery, moderate crowd | 1 |
| Scenic quiet | 1 |
| Scenic, peaceful | 1 |
| Scenic, trails | 1 |
| Scenic; non-commercialized; dog-friendly | 1 |
| Seashore | 1 |
| Seclusion | 1 |
| Seclusion & the fact that it is not crowded | 1 |
| Seems very undeveloped | 1 |
| Serenity | 1 |
| Size | 1 |
| Size, proximity, cleanliness | 1 |
| Small size | 1 |
| Small | 1 |
| Small & private | 1 |
| Small & quiet | 1 |
| Small beach, nice scenery, peaceful | 1 |
| Small beach, nice views | 1 |
| Small size, clean | 1 |
| Small size, trail access, not a lot of people during the week | 1 |
| Small, accessible, lots of variety | 1 |
| Small, confined, relatively clean | 1 |

| | |
|---|---|
| Small, interesting crowd, surrounding terrain | 1 |
| Small, removed, dark sand | 1 |
| Small, un-crowded | 1 |
| Small/laidback atmosphere | 1 |
| Small; rocks | 1 |
| Smallness | 1 |
| Soft sand, free public access, close to home, natural beauty | 1 |
| Solitude | 1 |
| State park | 1 |
| Stays clean | 1 |
| Still wild | 1 |
| Surf, waves, rocks | 1 |
| Temp | 1 |
| That fact that it is undeveloped | 1 |
| That it's still here | 1 |
| That it is protected from development | 1 |
| That nature is bigger than humans | 1 |
| The "wild" surroundings I.e. no commercial develop | 1 |
| The beach +the mountains + the scenery | 1 |
| The beach allows dogs. The restored sand dunes | 1 |
| The bluff | 1 |
| The beauty of the coastline + access to both | 1 |
| The lack of shops- vendors etc | 1 |
| The natural aspect | 1 |
| The natural beauty | 1 |
| The natural undeveloped scenery protected from evidence of man,
current level of ocean | 1 |
| The nature surrounding | 1 |
| The ocean | 2 |
| The ocean, the hills, all of it | 1 |
| The preservation of nature | 1 |
| The rocks | 1 |
| The rustic beauty | 1 |
| The san surf and sunbathers | 1 |
| The sand is nice the parking is fine it's not as crowded as Stinson | 1 |
| The scenic beauty the wide beach | 1 |
| The seascape experience, rhythm of waves | 1 |
| The simplicity of the access | 1 |
| The view | 1 |
| The view, the sound of the water, the seal who popped his head out of
the water, the birds | 1 |
| The water | 1 |
| The wildlife | 1 |
| Tidal pools | 1 |
| Tide pools and natural beauty | 1 |

| | |
|---|---|
| Trails | 1 |
| Tranquil environment | 1 |
| Unspoiled beach, allows dogs | 1 |
| Unspoiled nature; not over-run with too many visit | 1 |
| Untouched/underdeveloped | 1 |
| Very unique | 1 |
| View | 5 |
| View, sand, scenery | 1 |
| View/solitude | 1 |
| Views | 1 |
| Views, hiking | 1 |
| Views, topography | 1 |
| Water and sand | 1 |
| Water distance from city surrounding scenery | 1 |
| Water quality and hiking | 1 |
| Water, hiking trails, sand, view | 1 |
| Waves & rock formations | 1 |
| We live in jam valley, it is close to home - in the morning it is not crowded | 1 |
| What we can remember- Not anything about Today's Visit | 1 |
| Wild life | 1 |
| Wild native landscapes | 1 |
| Wild, clean, free | 1 |
| Wildlife- birds | 1 |
| Woods | 1 |

-----Page Break-----

MUIR WOODS OPEN ENDED CODES

Enjoy most

| Q 1a. (Q 1a.) What did you enjoy most about your visit? | |
|--|-----------|
| | Frequency |
| 1. Well map distance of each trail. 2. Well defined trail. | 1 |
| Accessibility to most of the park | 1 |
| An enjoyable hike - peaceful | 1 |
| Animals and habitat we saw on the journey | 1 |
| Aroma, good paths (esp. for handicapped), undisturbed trail-sides | 1 |
| Beautiful views | 1 |
| Beauty and peacefulness | 1 |
| Beauty of the forest | 1 |
| Beauty of the trees | 1 |
| Beauty of the trees and foliage | 1 |
| Beauty, serenity, trees not in plastic yet, and tall trees | 1 |
| Being able to enjoy the majesty of nature in a great peaceful atmosphere | 1 |

| | |
|--|---|
| Being able to experience the majesty of the Redwoods and the great sounds of nature | 1 |
| Being able to stand next to the tallest trees in the world. | 1 |
| Being able to walk among the Redwoods | 1 |
| Being alone in the beauty of nature | 1 |
| Being here early and the quiet and hearing the stream and birds; lack of people | 1 |
| Being outside, finding a trail away from the crowds | 1 |
| Calmness and serenity | 1 |
| Came early, the quiet and peacefulness | 1 |
| Can't pick one thing - the smell - quiet etc. etc. | 1 |
| Can walk at own pace - lots of photo opportunities, serenity and quiet | 1 |
| Clean air: beautiful scenery | 1 |
| Clean park, trails easy to see, Great sights | 1 |
| Clean well-marked trails; map and friendly park service staff | 1 |
| Cleanliness of forest | 1 |
| Cleanliness of trail and the smell | 1 |
| Climate peace, beauty, tranquility | 1 |
| Communicating with my trail partner; the natural splendor. | 1 |
| Contemplating the size and age of trees | 1 |
| Cool air | 1 |
| Cool temp. Quiet | 1 |
| Dirty feet and big trees | 1 |
| Easily accessible redwood forest | 1 |
| Easily accessible. Boardwalk. | 1 |
| Easy ability for walking - the "quiet" - the cleanliness - it was great! | 1 |
| Easy walking trails-signs | 1 |
| Enjoyed viewing the trees; quiet atmosphere | 1 |
| Everything especially the large trees sequoias | 1 |
| Everything...the trees are amazing | 1 |
| Experiencing the forest | 1 |
| Fantastic trees | 1 |
| Finding places where we visited in the past with other relatives | 1 |
| First time Redwood viewer! Views from Dipsea trail were amazing | 1 |
| Fresh air and nature | 1 |
| Getting away from people | 1 |
| Getting to see such huge and beautiful trees | 1 |
| Getting to see the redwoods | 1 |
| Gift shop | 1 |
| Going up the Dipsea trail | 1 |
| Good hiking, great scenery | 1 |
| Good signs, good path | 1 |
| Great weather - beautiful trees! Nice main paths | 1 |
| Having the chance to see these magnificent tree in their natural setting, I am from Pennsylvania | 1 |

| | |
|--|---|
| Hiking the trails, looking at the redwoods | 1 |
| Hollowed out trees | 1 |
| I enjoyed the beauty and the severe setting | 1 |
| I enjoyed the difficulty of the trail. | 1 |
| I really liked being engulfed in the forest. I felt like I was part of the forest | 1 |
| In the early morning I enjoyed the peace of woods and the cool clean smells. | 1 |
| Incredible nature | 1 |
| Incredible trees | 1 |
| Info on trails | 1 |
| Informational session was useful | 1 |
| It was very quiet today | 1 |
| It was very relaxing and beautiful | 1 |
| Just being able to stroll through the woods at our own pace | 1 |
| Landscape and trees | 1 |
| Large redwoods and streams | 1 |
| Layout of path and trails | 1 |
| Learning about the environment of the woods and the sights around the walk. | 1 |
| Looking @ the trees/light | 1 |
| Looking at the tall trees and learning about the history and seeing the fallen Kent Monument | 1 |
| Loved the beautiful setting and magnificent trees | 1 |
| Majesty of the trees | 1 |
| Natural beauty | 1 |
| Natural Setting | 1 |
| Nature - the trees/wildlife | 1 |
| Nature Trails | 1 |
| Nature, quiet, nice trails | 1 |
| New colorful signs | 1 |
| Nice trails | 1 |
| No insects | 1 |
| Non directed tour | 1 |
| Not being bothered by people and noise | 1 |
| Not many people; early morning quiet; majesty of the natural creation | 1 |
| Our walk in God's Cathedral-the air! | 1 |
| Park was quite clean and kept in its natural state | 1 |
| Peace and quiet | 3 |
| Peace, quite, beauty. | 1 |
| Peace, tranquility, no sound of outdoor | 1 |
| Peaceful trees | 1 |
| Peaceful walk w/ beautiful trees | 1 |
| Photo opportunities with trees i.e standing with in giant tree trunks | 1 |
| Pleasant walk | 1 |

| | |
|--|---|
| Posted descriptions | 1 |
| Quiet | 1 |
| Quiet | 1 |
| Quiet (Came @ 7:30) beauty | 1 |
| Quiet (early AM) | 1 |
| Quiet and calm | 1 |
| Quiet and serene | 1 |
| Quiet and smells | 1 |
| Quiet before everyone came, the 50 cent nature brochure, Belgian chocolate | 1 |
| Quiet on Remote Trails, Trail plaques describing features, well maintained, fees ok, toilets clean | 1 |
| Quiet serene moments | 1 |
| Quiet time and nature | 1 |
| Quiet trail, redwoods, clear sky | 1 |
| Quiet walk peaceful nature of the setting | 1 |
| Quiet walk, weather (not hot/cold), sounds (river, trees) | 1 |
| Quiet, clean, clearly outlined | 1 |
| Quiet, serene setting; The trees! The sounds of nature. | 1 |
| Quiet. Beauty of woods | 1 |
| Ranger dialogue/ courteous and professional | 1 |
| Reading about the trees and just seeing the trees | 1 |
| Redwood Trees | 1 |
| Redwoods - peaceful walk | 1 |
| Redwoods | 2 |
| Redwoods Creek - peaceful | 1 |
| Redwoods, peaceful setting. | 1 |
| Redwoods, the language I heard | 1 |
| Relaxation | 1 |
| The trees and quiet | 1 |
| Sanctuary of Redwoods and serenity they instill | 1 |
| Scenery - trails | 1 |
| Scenery | 1 |
| Scenery, information from park ranger on Sequoia trees | 1 |
| Scenery, trees | 1 |
| See the redwoods | 1 |
| Seeing a black and yellow caterpillar, nice trail, seeing branches growing out of falling trees | 1 |
| Seeing a virgin redwood forest | 1 |
| Seeing and reading about the trees | 1 |
| Seeing and smelling the redwoods | 1 |
| Seeing calf redwoods in a beautiful park setting | 1 |
| Seeing such large and old trees | 1 |
| Seeing tall trees close up, well marked trails, easy to walk | 1 |
| Seeing the beautiful trees | 1 |

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|---|---|
| Seeing the cathedral grove | 1 |
| Seeing the large trees | 1 |
| Seeing the redwood trees at the cathedral forest | 1 |
| Seeing the redwoods | 3 |
| Seeing the redwoods for the 1st time, being alone on the dirt trails | 1 |
| Seeing the size of the trees | 1 |
| Seeing the trees | 1 |
| Seeing tree- difference in environment were we live engaged | 1 |
| Seeing trees | 2 |
| Self-guided trail, natural beauty of the area, the smell | 1 |
| Serenity, light scents | 1 |
| Serenity, wildlife (deer sighting!) | 1 |
| Shade and cool bridge | 1 |
| Silence and majesty of old growth forest | 1 |
| Since we were here early - the quiet, the magnitude of the redwoods was awesome | 1 |
| Smell of air and the beauty of the stream, tallness, green of leaves | 1 |
| Smell of trees, solitude, trails | 1 |
| Smell, serene environment. | 1 |
| Solitude | 1 |
| Stateliness of the trees - history | 1 |
| Talk by park ranger | 1 |
| Tall "Giant" My kids running in front of me | 1 |
| The accessibility to the trees- very up close and personal | 1 |
| The amazing trees and availability of wheelchairs | 1 |
| The beautiful old trees | 1 |
| The beautiful trees | 2 |
| The beautiful trees and their shapes | 1 |
| The beautiful views of nature | 1 |
| The beauty - the quiet | 1 |
| The beauty | 1 |
| The beauty and serenity of the forest | 1 |
| The beauty of the redwoods | 1 |
| The beauty of the redwoods, the paved road made it easier to trek | 1 |
| The beauty of the redwoods. | 1 |
| The beauty of the trees | 1 |
| The beauty of the trees and nature | 1 |
| The beauty of the trees and the ease of the walkway | 1 |
| The beauty of the trees, clean and peaceful surroundings. | 1 |
| The beauty of the trees, the sounds of the stream, the height of the trees | 1 |
| The beauty of the trees; the sound of the water; the smells of the forest. | 1 |
| The incredible and unique Redwoods | 1 |
| The big trees - real nice trails | 1 |
| The big trees | 1 |
| The big trees and the beautiful creek | 1 |

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|---|---|
| The big trees, peaceful walk, deer | 1 |
| The bigger the trees, the better | 1 |
| The clean and natural environment. The trees,, the fog, and no entry fee before 9:00am | 1 |
| The climate | 1 |
| The colorful narration of our intern tour guide from Michigan | 1 |
| The company | 1 |
| The ease of the paths, cleanliness, informative signs | 1 |
| The ease of walking leisurely under the giant trees and the cleanliness of the environment | 1 |
| The easy paths and of course the trees | 1 |
| The enchantment | 1 |
| The enormity of trees | 1 |
| The environment of trees, creeks, ferns | 1 |
| The experience of stopping on the trails, hearing the water trickle, feeling the breeze, seeing the ferns, But mostly feeling protected by the redwoods | 1 |
| The feeling of natural places, beautiful trees | 1 |
| The forest | 1 |
| The fresh air and the view of the redwoods | 1 |
| The freshness, peaceful | 1 |
| The general ambience | 1 |
| The general beauty of the area | 1 |
| The greens - all different colors | 1 |
| The guided trails. Wooded walkway | 1 |
| The hike without fences | 1 |
| The hike. As we left the paved walkway we quickly found peace | 1 |
| The hiking through the redwood grove and the proximity to the brook | 1 |
| The history of the forest | 1 |
| The hummingbird, the solitude and quiet | 1 |
| The impressive scenery and seeing the 2 bucks | 1 |
| The impressive size of the redwoods | 1 |
| The impressive size of the trees. | 1 |
| The information about the redwoods | 1 |
| The information on tree propagation | 1 |
| The large trees | 1 |
| The majesty of the virgin redwood forest | 1 |
| The more secluded trails, the trail that followed a stream | 1 |
| The natural beauty | 1 |
| The natural beauty | 3 |
| The natural beauty of the trails | 1 |
| The natural Beauty of woods | 1 |
| The natural feeling and smells | 1 |
| The natural life - plants, trees, etc. | 1 |
| The naturalness of the trail | 1 |
| The nice clean trails it was very nice and adventuring. | 1 |

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|---|---|
| The nice way the trails were | 1 |
| The off-the-main-trail hikes - -the beauty and peacefulness of the forest | 1 |
| The park | 1 |
| The paved walking trails | 1 |
| The peace and quiet of the forest and the beauty of it all | 1 |
| The peace and quiet, the natural beauty | 1 |
| The peace and trees are beautiful | 1 |
| The peace of the woods | 1 |
| The peace that the natural growth provided, the information about the woods along the trail | 1 |
| The peacefulness | 1 |
| The peacefulness | 1 |
| The peacefulness and the trees | 1 |
| The physical beauty and relatively unspoiled environment | 1 |
| The preservation process to start along with the occasional silence | 1 |
| The promotion of the naturalization of the area, presentation of trails are excellent | 1 |
| The quality of the forest was excellent, not many man made displays | 1 |
| The quiet | 3 |
| The quiet | 2 |
| The quiet and beauty of the park (we came early); the well-maintained trails | 1 |
| The quiet and majesty of the woods | 1 |
| The quiet atmosphere, the smells, the nature talk | 1 |
| The quiet beauty a majesty of the trees | 1 |
| The quiet stillness of the trees and stream | 1 |
| The quiet, I came before 10:00 | 1 |
| The redwood trees and initial quiet | 1 |
| The redwoods | 2 |
| The redwoods | 4 |
| The redwoods and deer | 1 |
| The redwoods and riparian habitat | 1 |
| The redwoods are f***ing huge | 1 |
| The redwoods themselves and the scenery in the park. The peacefulness also was relaxing. | 1 |
| The Redwoods! | 1 |
| The redwoods, fresh air | 1 |
| The relaxing aspect of it | 1 |
| The scale of the trees | 1 |
| The scenery - closeness to the trees | 1 |
| The scenery | 3 |
| The scenery and the trail | 1 |
| The scenery was beautiful and the setting was very relaxing. | 1 |
| The scenic beauty | 1 |
| The scenery and pristiness of the site. | 1 |

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|--|----|
| The sense of well being one gets while in a forest like this | 1 |
| The serenity | 1 |
| The serenity | 1 |
| The serenity and beauty of nature. | 1 |
| The serenity and tranquility | 1 |
| The serenity of the forest | 1 |
| The serenity of the woods | 1 |
| The shade on paths, the creek, trees | 1 |
| The silence | 1 |
| The size of the Redwoods | 1 |
| The solitude and majesty (we arrived before the hordes) | 1 |
| The spectacular redwood trees | 1 |
| The state of the trees and the way the trails are natural as well as the information in various places in the forest | 1 |
| The stillness of the trees- the sound of water | 1 |
| The stroll thru the magnificent monumental trees - early before the crowds of tourists arrived | 1 |
| The talk by the park employee | 1 |
| The tall trees | 1 |
| The tees of course! | 1 |
| The time we pent hiking off of the main trails | 1 |
| The total environment | 1 |
| The trails | 1 |
| The trails | 1 |
| The trails and fact of how it has been maintained naturally | 1 |
| The trails, self guided nature tour, the trees- cool!! | 1 |
| The tranquility and beauty of the woods | 1 |
| The tranquility and natural beauty | 1 |
| The tranquility, majesty, beauty | 1 |
| The trees - the accessibility of getting up close | 1 |
| The trees | 6 |
| The trees | 11 |
| The trees (how close we can get) | 1 |
| The trees and area | 1 |
| The trees and fog | 1 |
| The trees and nature | 1 |
| The trees and pathway | 1 |
| The trees and plants | 1 |
| The trees and sunlight | 1 |
| The trees and the atmosphere | 1 |
| The trees and the fish | 1 |
| The trees and the well kept boardwalk | 1 |
| The trees and views | 1 |
| The trees of course, fresh air, strolling through the forest environs etc. | 1 |
| The trees themselves | 1 |

| | |
|--|---|
| The trees were healthy, The park was clean and well maintained | 1 |
| The trees! | 1 |
| The trees! The park does a wonderful job of allowing visitors to experience the trees without harming nature | 1 |
| The trees, atmosphere in woods | 1 |
| The trees, naturalness | 1 |
| The trees, quiet paths | 1 |
| The trees, scent of trees | 1 |
| The trees, the scents | 1 |
| The trees, the smell of the forest | 1 |
| The trees, the sound of the water | 1 |
| The trees, the stream, the shady, cool natural beauty | 1 |
| The trees, the trails, the weather | 1 |
| The unbelievable beauty of the woods. | 1 |
| The unique experience of seeing these amazing trees | 1 |
| The view | 1 |
| The view and scenery | 1 |
| The view from the top, and seeing an eagle | 1 |
| The view of the forest | 1 |
| The view of the redwoods | 1 |
| The view/sound of the water | 1 |
| The viewing of the trees | 1 |
| The views | 1 |
| The views looking up through the branches and the sounds of the creek | 1 |
| The walk through | 1 |
| The walking | 1 |
| The weather and the nicely groomed trails | 1 |
| The way it is kept up and looking beautiful | 1 |
| The whole thing | 1 |
| The woods! | 1 |
| The trees, road getting here | 1 |
| To see the beauty and size of these trees in their natural habitat and marvel about their longevity | 1 |
| Trail conditions; wood platform | 1 |
| Tranquility. Serenity of site | 1 |
| Tree | 1 |
| Trees - Very natural environment | 1 |
| Trees | 3 |
| Trees | 1 |
| Trees and creek, peacefulness | 1 |
| Trees and quiet | 1 |
| Trees and serenity | 1 |
| Trees are protected by paved trails | 1 |
| Trees close up | 1 |
| Trees in setting | 1 |

| | |
|--|---|
| Trees, nature, unusual plants/trees you don't get to see in Ohio | 1 |
| Trees, peaceful | 1 |
| Trees, quiet, air | 1 |
| Unique and beautiful | 1 |
| Unique landscape, majestic views | 1 |
| Very clean, quiet, peaceful | 1 |
| Views | 1 |
| Views of the forest | 1 |
| Walk layout | 1 |
| Walking along the boardwalk trail | 1 |
| Walking around the groves - seeing some wildlife | 1 |
| Walking in the woods. Enjoying the beauty | 1 |
| Walking the trails and enjoying the beauty of the trails | 1 |
| Walking through and looking at the Redwoods | 1 |
| Watching the reactions of our friend who's never been here before. The beauty of the trees | 1 |
| Water flowing | 1 |
| We had never seen redwoods - the sheer awe of it was indescribable | 1 |
| We were able to see the wildlife (deer) in their natural setting. | 1 |
| Well laid out trails | 1 |
| Yes | 1 |

N = 404

Enjoy least

| Q 1b. (Q 1b.) What did you enjoy least about your visit? | |
|--|-----------|
| | Frequency |
| -The restroom's lack of cleanliness | 1 |
| A bit too crowded | 1 |
| A little crowded today | 1 |
| A lot of people | 1 |
| After 9:30 - too many people | 1 |
| After you leave bridge 3 to bridge 4 there was no notification bridge 4 was closed | 1 |
| All pleasant | 1 |
| All the other people | 1 |
| All the people | 1 |
| All the people | 1 |
| As I recall there used to be more signage with dates of fallen trees and more info on plant life | 1 |
| Boardwalk!!! And barriers, noisy | 1 |
| Bus loads of people | 1 |
| Closed trail due to bridge out | 1 |
| Closed trails | 1 |
| Come on a weekend, too many people, too much noise | 1 |
| Crowd | 2 |

| | |
|--|---|
| Crowded | 3 |
| Crowded / loud | 1 |
| Crowded walks | 1 |
| Crowded, very limited parking | 1 |
| Crowding. Gift shop | 1 |
| Crowds - Noise | 1 |
| Crowds | 4 |
| Crowds | 1 |
| Crowds (near the end) and a very noisy running group | 1 |
| Crowds (oh well) | 1 |
| Crowds and parking | 1 |
| Crowds and steepness of trails | 1 |
| Crowds of people | 1 |
| Crowds, albeit pretty small today | 1 |
| Crowds, Parking (full) | 1 |
| Crowds, people | 1 |
| Cut trees | 1 |
| Disappointed about yellow jackets on shoretrail | 1 |
| Distance to walk from parking (down the road) | 1 |
| Dust | 1 |
| Dust on my feet | 1 |
| Dust trail | 1 |
| Everything was great | 2 |
| Everything was very pleasant | 1 |
| Finding a spot to park | 1 |
| Food was too expensive | 1 |
| Gets repetitive | 1 |
| Getting here, terrified of heights | 1 |
| Gift center. Should be outside of park, need more parking | 1 |
| Gift shop | 1 |
| Going down steep slopes | 1 |
| Hard to navigate trails (poor markings) | 1 |
| Have to get back before crowds show up | 1 |
| Having to remain on set trails | 1 |
| Hoads of people | 1 |
| Hordes of people | 1 |
| I did not like asphalt or wood walk-ways. I prefer a natural footing for a trail | 1 |
| I don't think there was a bad or unsatisfying part | 1 |
| I enjoyed the entire experience | 1 |
| I liked everything | 1 |
| I liked it all | 1 |
| I thought it was great - parking is a problem | 1 |
| I was disappointed that the Hillside trail was closed | 1 |

| | |
|---|---|
| Ignorant people like ourselves, who talk too much and know too little, plus trails being closed | 1 |
| In the afternoon when babies cried and children screamed | 1 |
| Inability to touch water/rocks | 1 |
| Insufficient time | 1 |
| It could have some more trees to walk into, PARKING!! Get a tam or something | 1 |
| It is always wonderful | 1 |
| It was a little crowded | 1 |
| It was far | 1 |
| It would be nice if people were more quiet - but everything was great otherwise | 1 |
| Italians walking on the left side | 1 |
| Lack of parking | 2 |
| Lack of parking space | 1 |
| Lack of signs, need more | 1 |
| Lack of working locks on the bathroom doors (ladies room) | 1 |
| Lack of wildlife | 1 |
| Leaving | 1 |
| Litter. We picked up as much as we could | 1 |
| Long walk | 1 |
| Lost someone | 1 |
| Lots of people (but you can't help people wanting to see Redwoods) | 1 |
| Lots of people - not used to so many people in a national park | 1 |
| Lots of people | 1 |
| Lots of people on the main trail seeing trash | 1 |
| Loud - mouthed visitors | 1 |
| Loud people | 2 |
| Loud people, concrete | 1 |
| Loved it all! | 2 |
| Many people did not seem to enjoy the park too busy talking... | 1 |
| More info boards on trail | 1 |
| My feet started to hurt from walking so much | 1 |
| My kids | 1 |
| My sore feet from wearing new sandals up ocean view trail | 1 |
| I wish one could trail off the path-but I understand why one can't | 1 |
| No bathroom at the other end | 1 |
| No film in gift shop | 1 |
| No guided tour this early in the morning | 1 |
| No gum in the gift shop | 1 |
| No map | 1 |
| No ocean views | 1 |
| No parking for HDC. People | 1 |
| No place to go to have room inside the woods | 1 |
| No problem | 1 |

| | |
|--|----|
| No problems | 1 |
| No problems | 1 |
| No scrambled eggs and bacon @ the coffee shop - no espresso - or lattes | 1 |
| No wildlife in the park; almost too quiet | 1 |
| Noise - PARKING! | 1 |
| Noise of kids (not your problem) | 1 |
| Noise/dust | 1 |
| Noisy Visitors - people need to learn to stay quiet in the woods to enjoy it all | 1 |
| Noisy kids - couldn't hope to see much wildlife | 1 |
| Noisy people | 2 |
| Noisy people | 1 |
| Noisy people and people off trail | 1 |
| Noisy tourists w/ baby strollers | 1 |
| Noisy visitors | 1 |
| None | 3 |
| Not being able to feel the earth beneath my feet | 1 |
| Not enough resting places on unpaved trails | 1 |
| Not enough tale description of things | 1 |
| Not enough time to explore the whole area | 1 |
| Not enough trail guides | 1 |
| Not enough wildlife | 1 |
| Nothing- great | 1 |
| Nothing - noticed damage to some of the fences along trails | 1 |
| Nothing - well kept park | 1 |
| Nothing | 25 |
| Nothing | 8 |
| Nothing honestly! | 1 |
| Nothing I can think of | 1 |
| Nothing! | 1 |
| Nothing! It was great | 1 |
| Nothing, everything was fantastic | 1 |
| Nothing, it all ruled. | 1 |
| Nothing, loved it all | 1 |
| Other folks | 1 |
| Other people | 1 |
| Other people noise | 1 |
| Parking - lack of. Distance is much less important | 1 |
| Parking | 8 |
| Parking | 2 |
| Parking or the lack thereof HORRIBLE | 1 |
| Parking problems; too much talking | 1 |
| Parking situation | 1 |
| Parking was difficult | 1 |
| Parking!! | 1 |

| | |
|---|---|
| Parking, but that was to be expected | 1 |
| Parking, smoking | 1 |
| Parking. Seeing 2 teenage boys throwing rocks down the ravine | 1 |
| Paying \$'s - No enough parking | 1 |
| People's inability to control their children. It detracted from the serenity of the forest | 1 |
| People | 2 |
| People | 1 |
| People noise | 1 |
| People talking | 1 |
| People talking a lot | 1 |
| People talking loud | 1 |
| People talking too loud | 1 |
| People talking very loudly on trail and someone had urinated of trailside | 1 |
| People who get off the trail. Don't seem to respect nature | 1 |
| People yelling | 1 |
| Poison ivy | 1 |
| Quality of refreshment area and conditions of restrooms | 1 |
| Really couldn't find anything negative, this is so beautiful | 1 |
| Restrooms | 1 |
| Restrooms dirty | 1 |
| Root bound path or a bridge | 1 |
| Rude behavior of a few fellow tourists | 1 |
| Saw someone smoking | 1 |
| Screaming little kids | 1 |
| Seeing evidence of human destruction | 1 |
| Seeing people eating and smoking along trail | 1 |
| Short stay | 1 |
| Sierra Club Gay annoying guests | 1 |
| Slipping on the trail | 1 |
| So many people | 1 |
| So many people, wish more trails open | 1 |
| Some of the higher paths made me nervous with my children | 1 |
| Sound of airplanes overhead- DIVERT THEM! | 1 |
| Squalling children, Trash on trail; not enough trash cans along trail. | 1 |
| That I could not leave the trail | 1 |
| That I was unable to take 1 of the trails due to a bridge being down, and yellow jackets on other trail | 1 |
| The # of other visitors | 1 |
| The # of people | 1 |
| The absence of other wild animals | 1 |
| The alternate path we wanted to use was cleared for repair | 1 |
| The amount of people | 1 |
| The bathroom was very dirty | 1 |
| The bathrooms | 1 |

| | |
|--|---|
| The bathrooms, not as clean as they could be | 1 |
| The bumpy trails | 1 |
| The challenge to find parking | 1 |
| The crowd | 1 |
| The crowd and loud talking. Silence is golden. Foreign language folks talking to loud and considerate of others. | 1 |
| The crowds | 2 |
| The crowds | 2 |
| The crowds and noise | 1 |
| The crowds at the beginning | 1 |
| The crowds of people | 1 |
| The doritos bag we saw pitched off the trail | 1 |
| The drive (carsick) | 1 |
| The dust | 1 |
| The dust on the foliage | 1 |
| The outrageous prices at the refreshment stand | 1 |
| The fact I could not climb much | 1 |
| The fact that two of the trails were closed - hiking options were curtailed | 1 |
| The fallen trees | 1 |
| The fear factor of little kids too close to the edge of the trail | 1 |
| The foggy drive to get here | 1 |
| The gift shop at the end of the trail | 1 |
| The hills of hillside - climbing | 1 |
| The hordes - too many loud visitors | 1 |
| The large numbers of people | 1 |
| The length | 1 |
| The long walk from our parking spot | 1 |
| The loud talking. I wish the people would speak quietly | 1 |
| The many people at the end of our hike | 1 |
| The map and trailheads not specific enough and located strategically | 1 |
| The mark up of commercial concession items at the canteen | 1 |
| The noise level (talking) on a busy Saturday afternoon | 1 |
| The noise of conversation in the areas that are most crowded | 1 |
| The noisy people | 1 |
| The noisy people behind us | 1 |
| The number of people | 1 |
| The number of people (crowds) | 1 |
| The other people | 1 |
| The overcrowding | 1 |
| The parking | 2 |
| The parking! | 1 |
| The paved walkways | 1 |
| The pavement on the trails | 1 |
| The people | 4 |
| The people (too many noisy) | 1 |

| | |
|--|---|
| The people, the crowds - I enjoy being in the woods by myself | 1 |
| The restrooms | 1 |
| The surrounding people | 1 |
| The visitors who stepped off the trails, wading in the creeks | 1 |
| The volume of tourists | 1 |
| The wooden planks instead of dirt paths | 1 |
| The yellow jacket warning had us a little concerned | 1 |
| The yellow jackets | 1 |
| There should be more detailed maps or placards that tell you where to find bigger redwoods or unique special redwoods if any | 1 |
| There was no ocean view at the top of the hike | 1 |
| There were a lot of people on the trail | 1 |
| Time frame with bus trip 1 hour | 1 |
| To many people | 1 |
| To much people | 1 |
| Too crowded -parking- | 1 |
| Too crowded | 1 |
| Too crowded and the walk from the car was too long, not enough parking | 1 |
| Too many loud people | 1 |
| Too many loud people and their sometimes loud voices | 1 |
| Too many other people | 1 |
| Too many people | 7 |
| Too many people | 5 |
| Too many people at snack bar - too long to get water | 1 |
| Too many people, hard to park | 1 |
| Too many people, too much talking | 1 |
| Too many people. | 1 |
| Too many people. No sidewalk in the entry of the parking lot | 1 |
| Too many visitors | 1 |
| Too many visitors | 1 |
| Too short | 1 |
| Tour buses | 1 |
| Tourists | 1 |
| Traffic | 1 |
| Trail maps could be better | 1 |
| Trails without fencing slippery roots | 1 |
| Trash on the trail - I picked it up | 1 |
| Visitors ignoring requests to preserve the woods by departing from the pathway | 1 |
| We didn't dislike anything except the tacky gift shop | 1 |
| We were looking in the gift shop for books on the trees and the area - there weren't any | 1 |
| Weather | 1 |
| Wet weather | 1 |
| Wheel chair inaccessible main trail loop | 1 |

| | |
|--|---|
| When it began getting crowded. Yellow jackets prevented some of our walk | 1 |
| When the crowds came | 1 |
| Wood path (# poster 1) | 1 |
| Worry about yellow jackets | 1 |
| Worrying about parking, but all things considered the wait was short | 1 |
| Would like a picnic area in the park - down trail | 1 |
| Yellow jackets | 2 |

N = 404

Management improvements

Q 1c. (Q 1c.) If you could ask the National Park Service to change some things about the way they manage Muir Woods today, what would you ask them to do?

| | Frequency |
|--|-----------|
| (Protect more natural areas) | 1 |
| 3rd visit here - no complaints | 1 |
| A designated camping area | 1 |
| A few more signs, info about redwoods | 1 |
| A little more description of the trails at the trail head | 1 |
| Accommodations for people moving @ diff. Speeds change the map on the visitor brochure (add more detail), non-native species control | 1 |
| Add a few more water fountains, better markings so can follow along w/ pamphlets | 1 |
| Add closer parking - we walked about as much to get here as we did inside the park | 1 |
| Add more parking paces or have a paved road that people can use to walk over to the park from outside (walking on the driving road is dangerous) | 1 |
| Add trash can on the trail | 1 |
| Add walking tours | 1 |
| Add wildlife | 1 |
| Additional water fountains | 1 |
| An eating area / picnic? | 1 |
| Ask folks to remain silent or at least q quiet whisper. More benches. | 1 |
| Ask people to respect the solitude of the woods | 1 |
| Ask visitors to speak softly. More handicapped parking | 1 |
| Audio tour | 1 |
| Audio tour? | 1 |
| Bathroom towards the end of the trail | 1 |
| Beer cant, seriously nothing | 1 |
| Better brochures (free) | 1 |
| Better info prior to arrival | 1 |
| Better parking | 1 |
| Better parking or a shuttle | 1 |
| Better trail marking | 1 |
| Can't think of anything | 4 |

| | |
|--|---|
| Cannot think of any aspect which could be improved | 1 |
| Change more to reduce numbers | 1 |
| Change nothing | 1 |
| Charge more and provide more conveniences | 1 |
| Charge normal retail prices - and make the trails better | 1 |
| Clarify map- have video -about Muir and the history of the park | 1 |
| Clean the bathrooms more often | 1 |
| Control access or take reservations | 1 |
| Create satellite parking with shuttle bus. | 1 |
| Current thing ok | 1 |
| Decrease prices at gift shops | 1 |
| Dedicate a portion to "silence please" | 1 |
| Develop more trails, spread out not to disturb possible animals, less people on trails | 1 |
| Distance and Space of trails | 1 |
| Do a better job of making sure the gift shop is restocked and include books describing the redwoods this sight | 1 |
| Do more about fish | 1 |
| Dog fee | 1 |
| Don't think items made from Redwood trees should be sold in Gift shop w/out education regarding sustainable forestry | 1 |
| Dust control | 1 |
| Dust the clover and the fern, more water available, need docents | 1 |
| Everything is fine | 1 |
| Everything is ok as is | 1 |
| Extend the trail, bathroom at the end (?) | 1 |
| Fences in high parts | 1 |
| Few more short loops (2-3 min) | 1 |
| Fewer people | 1 |
| Find more parking | 1 |
| Fine the snacks bar workers, the old man was nude! | 1 |
| Fix the closed trails | 1 |
| Free adventure to US taxpayers | 1 |
| Get a shuttle from the outlying parking | 1 |
| Get closer to more trees | 1 |
| Get rid of pavement, lessen crowding | 1 |
| Get rid of Sierra Club annoying display and person | 1 |
| Give more of above b. | 1 |
| Great the way it is! | 1 |
| Guidebooks at the entrance window | 1 |
| Guided tour more frequently | 1 |
| Have a spot to soak hot feel in cold stream. Run a shuttle from far away parking | 1 |
| Have at least one area 2/o barriers and walkways a natural area trail. Have a lower fee for local residents | 1 |

| | |
|--|---|
| Have main trails marked a little better | 1 |
| Have more spots to touch, to creep into a tree | 1 |
| Have park rangers more available to answer questions and inform visitors | 1 |
| Have parking away and transit to park | 1 |
| Have quiet areas | 1 |
| Have redwood ecology talk every 45 minutes or at a more frequent interval | 1 |
| Have some trails with no boardwalk | 1 |
| Have the concession provide decent food, (Homemade) the present food is terrible | 1 |
| Have trails w/ different difficulty levels | 1 |
| Honestly, nothing more or less, thank you for your current practices | 1 |
| I don't think of anything | 1 |
| I have noticed drop in chipmunks, Don't know what you can do , but improvement in wildlife is important to me. | 1 |
| I love what NPS does at Muir Woods | 1 |
| I think for the number of people that use this park, they do a great job | 1 |
| I think it is good the way it is | 1 |
| I think they're doing a great job, especially by having a walk and not letting people leave it. | 1 |
| I think you did a very fine job overall | 1 |
| I would ask them to give tours off of the trail. I.E. hiking or something in that area | 1 |
| I wouldn't change anything, continue to preserve the beauty of nature | 1 |
| Identify the types of plants, trees, and bird and animal life with more signage and info | 1 |
| If you want to make more money, you should have a bus shuttling people from their cars to the park on very busy days | 1 |
| Improve parking | 1 |
| Increase money for maintenance for bridges and trails | 1 |
| Increase parking availability | 1 |
| Increase resources to have more staff | 1 |
| Increased security to keep people on trails, limit # of people at any one time | 1 |
| It's perfect how it is | 1 |
| It is fine | 1 |
| It seemed fine to me | 1 |
| It would be great if there were more information about the trees, plants, etc. along the trails | 1 |
| Keep up good work | 1 |
| Keep up the great job you are doing | 1 |
| Larger core paths, (but that means more people ?) | 1 |
| Larger visitor center | 1 |
| Leave it alone- wonderful | 1 |
| Leave parking lot open @ night, clean bathrooms before 8am | 1 |

| | |
|--|---|
| Less parking and paved trails | 1 |
| Less people | 1 |
| Less stairs | 1 |
| Let us go on more natural paths | 1 |
| Liked it! | 1 |
| Limit #'s of tourists to intervals, if possible | 1 |
| Limit the amount of people per day in some way or another.. Too many people today. | 1 |
| Limit the amount of people who can be in the park at any one time | 1 |
| Limit the number of people entering at the same time - stagger the people | 1 |
| Limit the number of visitors | 1 |
| Limit visitors | 1 |
| Make it clearer that you can go in either direction on the trail to thin out the groups a little better | 1 |
| Make it cheaper | 1 |
| Make it costly to use private automobiles | 1 |
| Make it free (just ask for donations) include signs that identify the kind of plants we are looking at and in form us about them not just signs about dedications and historical events. | 1 |
| Make more wooden walks or trails | 1 |
| Make parking area outside the park and have natural gas shuttles bring in people | 1 |
| Make trails farther apart | 1 |
| Manage parking | 1 |
| Maybe- a video/movie intro with history | 1 |
| Maybe have curators scattered throughout park | 1 |
| Maybe limit the # of visitors | 1 |
| Maybe limit the number of guests on the trail | 1 |
| Maybe limit the number of people | 1 |
| Maybe more informative along the trails | 1 |
| Maybe offer more guided tours | 1 |
| Maybe offer say wagon assistance (ha) | 1 |
| Maybe we shouldn't be visiting at all (too many people) | 1 |
| More animals, really nothing | 1 |
| More bathrooms, more parking | 1 |
| More benches | 1 |
| More benches on the trail | 1 |
| More close - in parking | 1 |
| More closely enforce the "stay on the trail" policy | 1 |
| More concessions farther away | 1 |
| More defined maps ex. Trail distances and difficulty of trail and est. time to hike from pt A - pt B | 1 |
| More dirt/rock paths on the trails | 1 |
| More drinking fountains and benches for elderly | 1 |
| More educational signs along path | 1 |

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|--|---|
| More explanations | 1 |
| More explanatory plaques along the way | 1 |
| More guided tours and instruction of routes upon entering | 1 |
| More historical information (John Muir, logging, etc.) | 1 |
| More info on flyer, the map on the main handout is confusing (at least to me) for the off-the-main trails. The staff at the entrance said it showed all the main trails, it didn't seem too. | 1 |
| More info, signs re. Trees, animals | 1 |
| More information | 1 |
| More information about the forest along paved trails | 1 |
| More information along the way | 1 |
| More information displays on other vegetation and trees in park | 1 |
| More information on the trails | 1 |
| More information regarding the park - volunteers/ employees stationed for visitor questions | 1 |
| More information thru out the park on the all the vegetation | 1 |
| More informational posts about plant; tree life | 1 |
| More informative signs - points of interest | 1 |
| More little informative sign things about stuff | 1 |
| More parking | 5 |
| More parking | 1 |
| More parking areas needed | 1 |
| More parking facilities | 1 |
| More parking lots | 1 |
| More parking. (and one more eating place perhaps?) | 1 |
| More parking? | 1 |
| More places | 1 |
| More places to sit alone. Just you the red woods | 1 |
| More signs | 1 |
| More signs about the area, under a fallen log | 1 |
| More signs or labels on plants/trees | 1 |
| More small trash receptacles-non obtrusive but available | 1 |
| More trail signage | 1 |
| More trails | 4 |
| More trails available | 1 |
| More trails branching from the main trails | 1 |
| More water fountains! And small train system for people who park far away | 1 |
| More/better parking | 1 |
| Most all seems great - keep tidy | 1 |
| More parking available | 1 |
| Need to work out parking | 1 |
| Nil | 1 |
| No | 1 |
| No asphalt | 1 |

| | |
|---|----|
| No asphalt in the trail but little rocks (more natural) | 1 |
| No change | 1 |
| No changes - well run | 1 |
| No changes | 2 |
| No suggestions | 1 |
| None | 3 |
| None | 4 |
| Not privatize the ranger system | 1 |
| Not sure | 1 |
| Not sure | 1 |
| Not to ease the trails for pep | 1 |
| Nothing- they do a great job | 1 |
| Nothing - fine | 1 |
| Nothing | 25 |
| Nothing | 11 |
| Nothing different | 1 |
| Nothing it was great | 1 |
| Nothing seems to need to be changed | 1 |
| Nothing, except one or two more mileage markers on ocean view trail | 1 |
| Nothing, except provide transit from the city so you don't have to be rushed with a tour | 1 |
| Nothing, it was very nice - quiet please! Signs | 1 |
| Nothing, keep private development away | 1 |
| Nothing, we think its wonderful | 1 |
| Nothing. It's great | 1 |
| Only b- loved everything else | 1 |
| Open at dawn. Limit # o people in woods | 1 |
| Park entrance | 1 |
| Parking | 2 |
| Parking should be safer | 1 |
| Parking was a bit dangerous on road | 1 |
| Parking was the only difficult part. | 1 |
| People on walk ways to answer questions | 1 |
| Perhaps limit # of people into monument at one time - makes less crowded | 1 |
| Please add a safe guard around high rocky roads | 1 |
| Please provide more parking | 1 |
| Possible area for picnics | 1 |
| Possibly limit number of people | 1 |
| Possibly other entrances to spread the crowds around | 1 |
| Possibly take people through only on guided tours, regularly scheduled to keep from overcrowding. | 1 |
| Post more signs describing what I was seeing | 1 |
| Post signs asking for visitor consideration of noise pollution | 1 |
| Provide a train ride | 1 |
| Provide more information along the path to read | 1 |

| | |
|---|---|
| Provide more recycling receptacles (including paper) | 1 |
| Provide more seating along the trails | 1 |
| Provide multilingual devices | 1 |
| Provide other transportation/parking options | 1 |
| Post personnel occasionally | 1 |
| Put a bathroom at the top of the trails, more water fountains | 1 |
| Put a railing on the dirt trails that are high up on hills | 1 |
| Put in a few more bench and add more interpretative signage | 1 |
| Put out a sign(s) asking for silence | 1 |
| Put rails up on high trails - just in case | 1 |
| Put up a sign that says please speak softly | 1 |
| Raking management | 1 |
| Reduce the entrance fee; if these trees could speak, they would deserve a cut of the profits | 1 |
| Remove the asphalt trails and continue with boardwalks | 1 |
| Roaming rangers talking explaining | 1 |
| Rut more Animals | 1 |
| Should offer senior discount | 1 |
| Shuttle buses in to parking lot | 1 |
| Shuttle system since parking lot too small | 1 |
| Signs with informative info are often only posted in one area and can be easily missed, also hard to read in groups elevated signs that larger groups can read simultaneously | 1 |
| Some trails were closed | 1 |
| Stagger times for walking trails, increase # of information signs | 1 |
| Teach zen parking manners | 1 |
| The maps handed out at Visitor Center could include the trails off the paved one | 1 |
| To have signs on certain area saying what we were looking at | 1 |
| Walk the trail more to see that people stay on it and keep kids from climbing fallen trees (potential injury) | 1 |
| Water fountains along the trails | 1 |
| We come here often and love it the way it is - maybe year passes | 1 |
| We love the nature setting, Happy as is | 1 |
| Well kept No complaints. Great gift shop! | 1 |
| What can be done about the dead or dying oaks - (sudden oak death) | 1 |
| Why is Roosevelt (FDR) called as the 31st president? Was he not the 32nd? | 1 |
| Works well as is | 1 |
| Would like little signs naming all the plants | 1 |
| You need more information markers about Redwoods: age, height, diameter, etc. | 1 |
| Zebras would be cool | 1 |

N = 404

Previous visits to Muir Woods

Q 1d. (Q 1d.) Have you visited Muir Woods National Monument before?

| | Frequency | Percent |
|-----|-----------|---------|
| Yes | 157 | 40.1 |
| No | 235 | 59.9 |

N = 392

Changed for the better

Please note any things you think have changed for the better since your last visit

| | Frequency |
|--|-----------|
| 6 months ago no noticeable change | 1 |
| Been too long to remember | 1 |
| Better and wider trails | 1 |
| Better benches and platforms | 1 |
| Better parking | 1 |
| Better trails | 2 |
| Better trails, H2O fountains | 1 |
| Boardwalk | 3 |
| Boardwalk | 2 |
| Boardwalk over soil, better seating and exhibits | 1 |
| Boardwalk, facilities, cleanliness | 1 |
| Boardwalk; preserving woods from impacts of people | 1 |
| Both bad and good more - walks that are paved | 1 |
| Can't remember- 40 years ago | 1 |
| Can't remember | 1 |
| Cannot remember | 1 |
| Cannot remember previous visit | 1 |
| Cant remember | 1 |
| Change | 1 |
| Cleaner | 1 |
| Cleanliness | 1 |
| Didn't notice | 1 |
| Didn't notice any | 1 |
| Do not recall | 1 |
| Don't remember | 2 |
| Fences along trails | 1 |
| Forgot how beautiful it is 23 years ago | 1 |
| Friendly and supportive staff!! | 1 |
| Good nature signs. E.g. Explanation of "Burls" | 1 |
| Great surveys | 1 |
| Haven't noticed a change | 1 |
| Haven't noticed anything different | 1 |
| I came here 22 years ago. | 1 |
| I don't remember it was long time ago | 1 |
| I like the boardwalk | 1 |

| | |
|---|---|
| I like the new boardwalk | 1 |
| I noticed new exhibit signs | 1 |
| I'm happy that visitors are asked to stay on paths. | 1 |
| Improved trails | 1 |
| It looks the same | 1 |
| Less HDC. Parking | 1 |
| Less mosquitoes | 1 |
| More benches | 2 |
| More info | 1 |
| More trails | 1 |
| More trails were open | 1 |
| New display, well-kept boardwalk | 1 |
| Nice and new bathroom near snack bar | 1 |
| No | 1 |
| No | 1 |
| No changes I noticed | 1 |
| No difference | 1 |
| None | 4 |
| Nothing | 1 |
| Nothing has changed | 1 |
| Nothing noticeable | 1 |
| Parking | 1 |
| Provision of information and signs | 1 |
| Raised Boardwalk | 1 |
| Ranger telling re: large and small coves | 1 |
| Renovations around entrance | 1 |
| Same | 2 |
| Same maybe the trails are better marked | 1 |
| Seemed the same | 1 |
| Signs | 1 |
| The boardwalk | 1 |
| The boardwalks | 1 |
| The boardwalks and the shop and café | 1 |
| The new walkways, the new restrooms by the café | 1 |
| The paths have improved | 1 |
| The raised trail | 1 |
| The same | 1 |
| The walk way | 1 |
| The walkway is better | 1 |
| The walkways | 1 |
| The weather | 1 |
| This survey | 1 |
| Toilet facilities | 1 |
| Too long ago to remember | 1 |
| Tours | 1 |

| | |
|---|---|
| Tails | 1 |
| trails are better | 2 |
| Trails maintained nicely. Boardwalks protect tree | 1 |
| Trails more secure | 1 |
| Trails open | 1 |
| Visitor center | 2 |
| Walkways | 2 |
| Walkways at service center are larger | 1 |
| Walkways keep people on trails | 1 |
| Walkways, rails etc. - great! | 1 |
| Weather (it was pouring last time) the trails | 1 |
| Wood cover walk ways and the clearing of trails | 1 |
| Wood floor | 1 |
| Wooden walk ways | 1 |
| Wooden walk ways to protect the soil | 1 |
| Wooden walkways | 1 |
| Yes- trail improved | 1 |

N = 404

Changed for the worse

| Please note any things you think have changed for the worse since your last visit | |
|---|-----------|
| | Frequency |
| | 324 |
| Above | 1 |
| Admission price | 1 |
| Boardwalk | 1 |
| Boardwalk, barriers, and more | 1 |
| Busier | 2 |
| Café layout poor, quality of souvenirs | 1 |
| Can't think of any | 1 |
| Crowds - more people | 1 |
| Crowds | 2 |
| Didn't like asphalt trees | 1 |
| Didn't notice | 1 |
| Ditto | 1 |
| Don't remember | 1 |
| It's about the same | 1 |
| it was more crowded this time | 1 |
| Lack of signage info | 1 |
| Landscape management | 1 |
| Maintenance of bridges / trails off main loop | 1 |
| Many more people | 1 |
| More crowded | 4 |
| More crowded (since 4/95) | 1 |
| More crowds | 1 |

| | |
|---|---|
| More people | 3 |
| More people | 1 |
| More people, but good for park | 1 |
| More people, more crowded | 1 |
| More people, worse park map | 1 |
| More restrooms | 1 |
| Muir Woods café, tourist shop | 1 |
| No | 2 |
| No | 1 |
| No more chipmunks | 1 |
| None | 6 |
| None | 1 |
| Nothing | 7 |
| Nothing | 2 |
| Nothing, I am certain | 1 |
| One trail closure | 1 |
| Parking | 1 |
| Parking! | 1 |
| Same | 2 |
| Same as above | 1 |
| Saw a bit more trash around | 1 |
| Slightly more artificial | 1 |
| Some trails appear deteriorated since last visit. | 1 |
| Star bucks coffee | 1 |
| The same | 1 |
| Too many boardwalks, litter on trails | 1 |
| Too many people for it to be a quiet forest exp. | 1 |
| Too many people! How can you say no!? | 1 |
| Traffic and lack of parking | 1 |
| Trail I took before was closed & not being repaired | 1 |
| Two trails had restricted passage | 1 |
| Wear on soil around trees and where people climbed | 1 |

N = 404

Value most

| Q 1e. (Q 1e.) What do you value most about your visit to Muir Woods? | |
|--|-----------|
| | Frequency |
| A chance to be closer to nature | 1 |
| A chance to enjoy the outdoors -the protected old growth | 1 |
| A chance to glimpse the past | 1 |
| A chance to see the redwoods and enjoy fresh air | 1 |
| A chance to see the redwoods close to S.F. | 1 |
| A greater appreciation | 1 |
| Ability to share trip with my family | 1 |
| Able to be among very old forest / hike up and down | 1 |

| | |
|---|---|
| Accessibility to those who are visiting even for a short amount of time | 1 |
| Accessible location, easy access to historical nature, and the multicultural experience | 1 |
| Actually being able to walk among them | 1 |
| All | 1 |
| Amazing trees | 1 |
| An opportunity to see trees, etc. not able to see in Indiana area | 1 |
| Appreciation of age of the trees | 1 |
| Atmosphere | 1 |
| Beauty of Nature! | 1 |
| Beautiful trees | 1 |
| Beauty - proximity | 1 |
| Beauty of the area | 1 |
| Beauty of the trees | 1 |
| Beauty of trees meditation | 1 |
| Beauty, quiet walk and view of all the forests | 1 |
| Being able to observe the natural environments | 1 |
| Being able to see nature untouched | 1 |
| Being able to see nature virtually uncorrupted | 1 |
| Being able to see the nature | 1 |
| Being able to see the trees and nature and how this whole area once looked | 1 |
| Being able to see the trees in their natural habitat | 1 |
| Being able to spend time in the woods | 1 |
| Being able to touch the trees | 1 |
| Being able to walk comfortably through the woods | 1 |
| Being from upstate NY we do not have this type of foliage - its beautiful | 1 |
| Being in an old growth forest | 1 |
| Being in contact with nature | 1 |
| Being in nature | 1 |
| Being in the present of slick majesty | 1 |
| Being outdoors | 1 |
| Being outside - the environment | 1 |
| Being outside | 1 |
| Being part of and observing the magnitude of Mother Nature | 1 |
| Being so close to the trees - how well they're preserved | 1 |
| Being undisturbed in nature | 1 |
| Big trees and animals | 1 |
| Bring back fond memories | 1 |
| Cathedral like majesty | 1 |
| Chance to be in a natural setting among these wonderful trees | 1 |
| Chance to get into nature | 1 |
| Chance to revisit the nature | 1 |
| Chance to see historic trees I've never seen before | 1 |
| Chance to see redwoods - and express only green - walkways | 1 |
| Chance to see the redwoods | 1 |

| | |
|--|---|
| Chance to see the trees | 1 |
| Chance to take in the woods, and go off some side trails | 1 |
| Clean and peaceful | 1 |
| Communing with nature | 1 |
| Communing with the tree spirits and water nymphs, seeing pretty girls from exotic places | 1 |
| Camaraderie w/ friends | 1 |
| Connecting to natural world | 1 |
| Conservation of Old Growth forest hard to find on east coast | 1 |
| Contrast between Giant Sequoias in Yosemite | 1 |
| Easy walking trails | 1 |
| Ecological and environmental knowledge | 1 |
| Education about forest | 1 |
| Enjoyed how "natural" everything was- not a lot to distract from habitat | 1 |
| Enjoying outdoors with family | 1 |
| Enjoying the redwoods | 1 |
| Exercise | 1 |
| Experience of being here | 1 |
| Experience of seeing redwoods | 1 |
| Experiencing the natural wonders we still have, keep up the good work, condition of trails was excellent | 1 |
| Explanation about tree's life through the ages | 1 |
| Family and nature time | 1 |
| Family time | 1 |
| Feeling insignificant | 1 |
| First time seeing redwoods | 1 |
| For \$3.00 I can see the most magnificent trees on Earth | 1 |
| Fresh air | 1 |
| Fresh air, smell of trees | 1 |
| Getting away from the city and enjoying nature | 1 |
| Getting such a real look into nature untouched | 1 |
| Getting to see the forest and take home photos | 1 |
| Good information by volunteers and information signs | 1 |
| Good trails, historical info about the natl. monument | 1 |
| Got to see gorgeous nature is a peaceful environment | 1 |
| Great that some areas have been preserved | 1 |
| Having the opportunity to see the tall trees | 1 |
| Historical significance, great scenery | 1 |
| History | 1 |
| History of redwoods | 1 |
| How beautifully preserved it is | 1 |
| How close it is to the city | 1 |
| How long this has been in existence | 1 |
| How natural it is | 1 |
| How quickly one is inside the new world of the old trees | 1 |

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|---|---|
| I've never seen redwoods before | 1 |
| I came from the east coast where we don't have anything like it so it was nice to see a new type of environment | 1 |
| I didn't realized I could enjoy the outdoors and that the trees were incredible in size and length | 1 |
| I think its important to teach/show people the beauty / importance of nature | 1 |
| Info session, environment | 1 |
| Information provided in free tour | 1 |
| Intact stretch of forest | 1 |
| It encourages conservation and environmentalism in visitors | 1 |
| It remind us how beautiful our Earth is!! | 1 |
| It seems very much undisturbed | 1 |
| It was a nice break from the everyday problems and stresses of life | 1 |
| It was peaceful and reminded me of liberal politics. Also, it was inexpensive | 1 |
| Its presence here | 1 |
| Just being w/ the trees | 1 |
| Just seeing the redwoods for the first time | 1 |
| Just the sights | 1 |
| Just to see nature at its most pristine state | 1 |
| Knowing it will be here forever | 1 |
| Knowing preservation is ongoing | 1 |
| Knowing that it is here | 1 |
| Knowing that this priceless park is so well taken care of, preserved and protected | 1 |
| Knowing the trees are being protected and that people from all over are learning about them. | 1 |
| Knowing trees are protected | 1 |
| Large trees - peacefulness | 1 |
| Learning about how these trees and being protected for future generations to enjoy | 1 |
| Learning about the fires and how the trees develop | 1 |
| Learning about the redwood trees | 1 |
| Learning the History of the giant Redwood | 1 |
| Love the setting. We're from Florida. Don't see anything like this in Florida | 1 |
| Memories | 1 |
| Memories w/ my family | 1 |
| My understanding of the woods importance to the ecology | 1 |
| Natural | 1 |
| Natural beauty | 1 |
| Natural beauty of park and cleanliness | 1 |
| Natural beauty of site | 1 |
| Natural beauty, peaceful settings | 1 |

| | |
|--|---|
| Natural environment, few signs - not overproduced | 1 |
| Natural qualities | 1 |
| Naturally preserved | 1 |
| Nature | 3 |
| Nature experience | 1 |
| Nature preserved | 1 |
| Nature/history | 1 |
| Opportunity to see nature respected and preserved | 1 |
| Opportunity to see something very old. Also "vertigo" tree stump! | 1 |
| Opportunity to see the historic trees | 1 |
| Park itself | 1 |
| Passport stamps for park service | 1 |
| Peace - the fact it is preserved and saved for our future | 1 |
| Peace and calm away from city life | 1 |
| Peace and quiet on secondary trails, hasn't been Disney-fied 1 Person enjoyed minimal commerce | 1 |
| Peace and relaxation while walking around | 1 |
| Peace in the woods | 1 |
| Peaceful feeling | 1 |
| Peaceful setting to relax in | 1 |
| Peaceful, naturalist atmosphere, diversity of trails | 1 |
| Peaceful, serene walk. The fact that the trees have so much history and are so old | 1 |
| Peacefulness of nature | 1 |
| Photo op. | 1 |
| Photo opportunities | 1 |
| Photo opportunities, admission was fair, the trees | 1 |
| Photographs, ability to touch a tree | 1 |
| Preservation | 1 |
| Preservation of natural environment | 1 |
| Preservation of nature | 1 |
| Preservation of the natural forest | 1 |
| Preservation of the natural surroundings | 1 |
| Pristine sights off boardwalk | 1 |
| Provide exposure to children about nature | 1 |
| Proximity to SF, peacefulness | 1 |
| Quiet, peaceful way to see the Redwoods | 1 |
| Quiet, relaxing time | 1 |
| Quiet, seeing trees, wildlife (deer), vegetation | 1 |
| Realizing how important it is to preserve these areas | 1 |
| Redwoods and the quiet | 1 |
| Redwoods so near urban communities | 1 |
| Redwoods, mental photos | 1 |
| Redwoods, quiet | 1 |
| Satisfaction that this preserve will be untouched by man for centuries to | 1 |

| | |
|---|---|
| come. | |
| Saving the environment - fish, birds and trees | 1 |
| Saw redwood grove | 1 |
| Scenic beauty | 1 |
| Seeing all of the redwoods | 1 |
| Seeing all these very old trees | 1 |
| Seeing and enjoying a first growth forest (what's left) | 1 |
| Seeing calif redwoods | 1 |
| Seeing coastal Redwoods | 1 |
| Seeing friends enjoy the experience, peaceful atmosphere off main trail | 1 |
| Seeing my tax dollars at work in a positive way | 1 |
| Seeing naturally preserved forest | 1 |
| Seeing nature | 1 |
| Seeing nature and feeling rejuvenated | 1 |
| Seeing nature relatively undisturbed | 1 |
| Seeing nature! | 1 |
| Seeing quiet creeks natural woods | 1 |
| Seeing redwoods | 1 |
| Seeing some trees so different to what we have at home (Canada) | 1 |
| Seeing something that is rare | 1 |
| Seeing such amazing natural things | 1 |
| Seeing the beautiful trees | 1 |
| Seeing the big trees | 1 |
| Seeing the enormity of the trees | 1 |
| Seeing the giant redwoods - have wanted to see them since I was a child - magnificent! | 1 |
| Seeing the redwoods | 3 |
| Seeing the redwoods first hand. I've researched and written about them for NAS but they never sent me here to experience the actual awe of looking up | 1 |
| Seeing the redwoods. Understanding how these forests have to be protected | 1 |
| Seeing the trees | 1 |
| Seeing the trees and natural habitat | 1 |
| Seeing this national treasure | 1 |
| Seeing those magnificent trees! | 1 |
| Serenity | 1 |
| Serenity | 1 |
| Serenity on hillside (just opened) | 1 |
| Serenity, beauty, protection of trees | 1 |
| Shade | 1 |
| Sharing calm and quiet time with my husband | 1 |
| Showing my children the importance of preservation | 1 |
| Showing visitors the woods | 1 |
| Silence | 1 |

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|--|---|
| Source of information | 1 |
| Spending time in a beautiful place w/ someone I love | 1 |
| That it's home!! Old growth! | 1 |
| That it is here intact and easy to get to | 1 |
| That it is preserved for future generations | 1 |
| That trees woods are protected | 1 |
| That the area is protected | 1 |
| That these trees are protected | 1 |
| That this forest has been preserved | 1 |
| The ability to be up close to the redwoods | 1 |
| The accessibility and low cost | 1 |
| The awareness that land like this still exists in the US and is preserved | 1 |
| The awe-inspiring beauty of the trees | 1 |
| The beautiful scenery | 1 |
| The beautiful trees | 1 |
| The beauty | 1 |
| The beauty & natural essence | 1 |
| The beauty and peacefulness | 1 |
| The beauty and photo opts. | 1 |
| The beauty of the area | 1 |
| The beauty of the forest seeing the enormous trees | 1 |
| The beauty of the redwoods | 1 |
| The beauty of the woods | 1 |
| The beauty, the atmosphere in the woods | 1 |
| The boardwalk and paths that keep the trees safe | 1 |
| The breeze and the fragrance of the area | 1 |
| The chance to be in a natural environment and learn of its history | 1 |
| The chance to see coast redwoods | 1 |
| The chance to view the redwoods | 1 |
| The cleanliness | 1 |
| The connection with nature | 1 |
| The contrast w/ the city well - groomed trails and the quiet | 1 |
| The educational facts | 1 |
| The enormous trees | 1 |
| The experience and the memory of the place we'll have | 1 |
| The experience of being among such magnificent trees | 1 |
| The experience of being so close to the handwork of God | 1 |
| The experience of walking quietly through the beautiful woods | 1 |
| The explanations/detail plaques on the trails | 1 |
| The fact that I can come and visit along with millions of other while the ecology is preserved | 1 |
| The fact that it is preserved for future generations | 1 |
| The fact that such a place exists for us to enjoy! | 1 |
| The fact that the trees are available for the public to view | 1 |
| The feeling of being connected and peaceful | 1 |

| | |
|---|---|
| The feeling of peace and permanence - I will take that money with me | 1 |
| The fresh air | 1 |
| The fresh air and walk | 1 |
| The giant trees and atmosphere of the surroundings | 1 |
| The great view | 1 |
| The great views and the clean environment | 1 |
| The hikes - the trees | 1 |
| The historical value of the woods and trying to keep it as natural as possible i.e. reminding people to stay on trail | 1 |
| The history | 1 |
| The history and the beauty of nature | 1 |
| The interaction with nature | 1 |
| The knowledge I gained and the serenity of the surroundings | 1 |
| The land is set aside and undisturbed for generations to appreciate | 1 |
| The map | 1 |
| The memories | 1 |
| The natural heritage | 1 |
| The natural setting | 1 |
| The natural trails, the wonderful trees | 1 |
| The nature | 1 |
| The nature I saw | 1 |
| The old-growth trees are protected | 1 |
| The opportunity and experience | 1 |
| The opportunity to see the redwoods, and share it with our children | 1 |
| The opportunity to stand among these redwoods, ferns, and streams!
Wow! | 1 |
| The opportunity to see/experience an environment that is
hundred/thousands of years old | 1 |
| The outdoor experience, having my kids see it and to pass it along to their
kids | 1 |
| The overall feel of the area particularly quieter sections | 1 |
| The peace and natural beauty that is maintained | 1 |
| The peace and serenity of the area | 1 |
| The peace/nature trails | 1 |
| The peaceful environment and the amazing scenery | 1 |
| The peaceful interlude on our trip | 1 |
| The peacefulness - The majestic trees | 1 |
| The peacefulness | 3 |
| The peacefulness of the park | 1 |
| The pictures and gifts to take home | 1 |
| The pictures I took | 1 |
| The place is very well kept up | 1 |
| The pleasant walk the link with the past | 1 |
| The pleasant weather and shade and the quiet trail | 1 |
| The preservation of natural beauty | 1 |

| | |
|---|---|
| The preservation of the redwoods | 1 |
| The preservation of the redwoods and nature | 1 |
| The preservation of this unique and special part of the world. It's wonderful to hear so many other languages here and know that then, too , wanted to visit Muir Woods. The map and info are helpful | 1 |
| The price was very reasonable. Walking through nature | 1 |
| The purity of the environment - absence of human interaction | 1 |
| The quiet and the trees | 1 |
| The quiet atmosphere and natural beauty are inspiring | 1 |
| The quiet up the main trails with my wonderful children | 1 |
| The raw natural beauty | 1 |
| The redwood trees | 1 |
| The redwoods | 1 |
| The scenery | 1 |
| The serenity | 1 |
| The signs of explanation along the way | 1 |
| The spiritual experience | 1 |
| The tranquility of the natural setting | 1 |
| The tranquility when you get away from all the people | 1 |
| The trees | 5 |
| The trees | 1 |
| The trees and foliage most beautiful. Area kept clean | 1 |
| The trees are still here!! | 1 |
| The true natural feel | 1 |
| The uniqueness of the trees and the memories of seeing them | 1 |
| The way it is well preserved and kept up | 1 |
| The way the environment is preserved | 1 |
| The wonder of nature reinforced once again | 1 |
| The wonder of the forest and its beauty | 1 |
| There is only 2% Big Trees left | 1 |
| Time spent w/ loved ones | 1 |
| To enjoy the peacefulness and beauty of nature | 1 |
| To see plants, trees that are not found on the eastern seaboard | 1 |
| To view something that can't be found anywhere else | 1 |
| Tranquility | 1 |
| Tranquility | 1 |
| Trees | 4 |
| Trees | 2 |
| Trees and air | 1 |
| Trees and quality time with my family | 1 |
| Trees and quiet trails | 1 |
| Trees and tranquility | 1 |
| Trees themselves | 1 |
| Trees, peaceful quality | 1 |
| Trees, vegetation biodiversity | 1 |

| | |
|---|---|
| Very pleasant place | 1 |
| Viewing the redwood | 1 |
| Views of trees | 1 |
| Virgin redwood forest - only one in bay area | 1 |
| Visual beauty, clean air | 1 |
| Visually beautiful | 1 |
| We could see coastal redwoods - we had recently seen giant sequoias | 1 |
| Well kept, clean | 1 |
| Woods, creek, trees, trails | 1 |

N = 404

Important qualities

| Q 1f. (Q 1f.) What do you consider to be the most important qualities of Muir Woods? | |
|--|-----------|
| | Frequency |
| Ability to educate | 1 |
| Accessibility | 1 |
| Access | 1 |
| Access to the trees | 1 |
| Accessibility (well-marked), facilities, maintenance, cleanliness | 1 |
| Accessibility from SF, shade, Redwoods | 1 |
| Accessible to San Francisco, the redwoods | 1 |
| Accommodates crowds well | 1 |
| Age | 1 |
| All the features associated w/ old growth forest - healthy plant community | 1 |
| Availability of the trees | 1 |
| Beautiful trails thru trees | 1 |
| Beautiful trees | 1 |
| Beautiful trees, nature | 1 |
| Beauty | 2 |
| Beauty | 1 |
| Beauty of the surroundings, protection of trees | 1 |
| Beauty, clean, natural | 1 |
| Being able to walk through the woods | 1 |
| Being preserved for future generations | 1 |
| Big trees and educating people | 1 |
| Calif redwoods | 1 |
| Calm, serene, preserved-natural state | 1 |
| Clean, remains not very commercial | 1 |
| Clean, undisturbed beauty | 1 |
| Clean/quiet | 1 |
| Cleanliness and beauty of nature | 1 |
| Cleanliness, no trash, good signs | 1 |
| Close to a metro area -educational -beauty | 1 |
| Close to SF and keeping it for the public | 1 |
| Conservation | 1 |

| | |
|--|---|
| Conservation beauty | 1 |
| Conservation efforts | 1 |
| Conservation of area | 1 |
| Conservation of old growth forest | 1 |
| Conservation of the redwoods | 1 |
| Conservation of trees | 1 |
| Conservation, education | 1 |
| Conserving nature and giving people a chance to experience it | 1 |
| Conserving the Redwoods | 1 |
| Conserving, peacefulness, cleanliness | 1 |
| Don't change through the years | 1 |
| Easy access | 1 |
| Easy access, clean, quite | 1 |
| Easy accessibility to the forest area | 1 |
| Easy walking trails | 1 |
| Educating people about nature | 1 |
| Education | 1 |
| Education problem | 1 |
| Educational, friendliness of personnel. | 1 |
| Emphasis on preserving our natural resources, the commitment to appreciation of nature | 1 |
| Enabling visitors to accept the woods whilst conserving and educating them. | 1 |
| Everlasting nature | 1 |
| Extent of trails and options for dif. Walks, care of the woods | 1 |
| Fresh air, majestic trees, wildlife | 1 |
| Friendly staff and environment | 1 |
| Good trails and interpretative hikes | 1 |
| Green spaces | 1 |
| Growing pretty things | 1 |
| History | 1 |
| History, diverse ecological area, uniqueness to area, opportunity to see original natural CA | 1 |
| History, lessons in the value of preservation | 1 |
| How old everything is, its very interesting to be walking through | 1 |
| How the woods are representative of what this area looked like many years ago | 1 |
| Introduce people to CA redwoods, outdoors, nature | 1 |
| Isolation | 1 |
| It's ability to be untouched by people | 1 |
| It's virgin and will be protected | 1 |
| It has been left as natural as possible | 1 |
| It is a very user friendly way to experience and see the redwoods | 1 |
| Its being preserved | 1 |
| Its clean and the trails are well organized | 1 |

| | |
|--|---|
| Its longevity | 1 |
| Its natural - The Redwood trails | 1 |
| Its natural state | 1 |
| Its preservation of ancient forest | 1 |
| Keep at close to natural as possible | 1 |
| Keeping the harmony with nature | 1 |
| Keeping the park clean and safe for visitors | 1 |
| keeping up with the beauty and cleanliness | 1 |
| Kept very nice (I.e. no litter around) primitive nature of site | 1 |
| Lack of commercialization, Old Growth, informative but un-intrusive info plaques | 1 |
| Learning about the redwoods | 1 |
| Location and benches | 1 |
| Location. History. A walk way for impaired walkers who can still enjoy the trees | 1 |
| Longevity- don't change a thing | 1 |
| Love the entire setting | 1 |
| Maintain things as close to the natural beauty | 1 |
| Maintained in a protective way, preserving this area for future, least expensive most enjoyable part of our vacation | 1 |
| Maintaining conservation (recycling, environmentally friendly facilities), natural beauty | 1 |
| Maintenance of natural growth | 1 |
| Majestic redwood trees | 1 |
| Muir Woods preserves the forest | 1 |
| Natural | 1 |
| Natural beauty peacefulness | 1 |
| Natural beauty, cool and refreshing, smells of nature, sounds of Nature | 1 |
| Natural environment | 1 |
| Natural forest | 1 |
| Natural Habitat | 1 |
| Natural preservation | 1 |
| Natural preservation and conservation yet still accessible to the public | 1 |
| Natural resources | 2 |
| Natural setting | 1 |
| Natural setting | 1 |
| Natural setting, quiet | 2 |
| Natural settings, preserved env. For trees | 1 |
| Natural state | 2 |
| Natural state, accessibility | 1 |
| Natural, creek running, walk-in tree | 1 |
| Natural, unspoiled | 1 |
| Naturally preserved - open to all | 1 |
| Nature (open space) undisturbed by humans - the redwoods | 1 |
| Nature history | 1 |

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|---|---|
| Nature keep natural | 1 |
| Nature preservation | 2 |
| Nature preserved - trees | 1 |
| Nature untouched - the signs to keep people on path to preserve what's here. Great Education signs, too | 1 |
| Nature, peace | 1 |
| Nature, peacefulness | 1 |
| Nature, quiet, clean | 1 |
| Nature, tranquility | 1 |
| Nice job up the trails, accessible and very rare! | 1 |
| Nice paths and boardwalks | 1 |
| No cars/only footing and of course no bikes | 1 |
| No commercial | 1 |
| Non commercialized | 1 |
| Not altering the trees | 1 |
| Not seeing single trees but getting an impression of the forest | 1 |
| Old growth, nature, cool air, sweet smelling air, brooks, silence | 1 |
| Original state of trees | 1 |
| Paths w/ barriers so the woods remain undisturbed | 1 |
| Paves trails, redwoods, nature, animals | 1 |
| Peaceful | 1 |
| Peaceful nature of a redwood forest | 1 |
| Peaceful, sounds of nature | 1 |
| Peacefulness | 1 |
| People being reminded to stay on trails | 1 |
| Preservation - oxygen | 1 |
| Preservation | 5 |
| Preservation | 1 |
| Preservation and ecology | 1 |
| Preservation in its natural state to greatest degree possible | 1 |
| Preservation of a beautiful place | 1 |
| Preservation of a natural resource | 1 |
| Preservation of forest | 1 |
| Preservation of habitat | 1 |
| Preservation of its unique features | 1 |
| Preservation of national treasure | 1 |
| Preservation of natural resources | 1 |
| Preservation of nature | 3 |
| Preservation of nature | 1 |
| Preservation of old growth forest, serenity | 1 |
| Preservation of redwoods | 2 |
| Preservation of redwoods | 1 |
| Preservation of site | 1 |
| Preservation of the forest | 1 |
| Preservation of the natural forest - shards of light through the trees | 1 |

| | |
|---|---|
| Preservation of the trees and plant life cycles | 1 |
| Preservation of trees | 1 |
| Preservation, beauty, environment | 1 |
| Preservations of the trees | 1 |
| Preservations, beauty | 1 |
| Preserved natural beauty | 1 |
| Preserved nature, peacefulness | 1 |
| Preserving nature | 1 |
| Preserving redwood forest | 1 |
| Preserving redwoods | 1 |
| Preserving redwoods, allowing public access | 1 |
| Preserving the forest | 1 |
| Preserving the redwoods | 1 |
| Preserving/conserving a sacred resource for future generations | 1 |
| Pristine area | 1 |
| Pristine condition | 1 |
| Pristine forest/redwoods | 1 |
| Pristine nature | 1 |
| Pristine nature preserved | 1 |
| Protecting redwoods | 1 |
| Protecting the trees so future generations can enjoy them. | 1 |
| Protection of forest | 1 |
| Protection of national asset (trees) | 1 |
| Quality of trails, proximity to the bay area | 1 |
| Quiet | 1 |
| Quiet | 1 |
| Quiet areas | 1 |
| Quiet natural trails, more remote trails and the TREES (some burned, some falling = natural form) | 1 |
| Quiet, lessons in ecology | 1 |
| Quiet, majestic trees | 1 |
| Quiet, natural | 1 |
| Quiet, natural setting- easy to get to | 1 |
| Quiet, Nature, challenging | 1 |
| Quiet, peacefulness, trees, can walk easily and also can opt for more vigorous hike | 1 |
| Quiet, undeveloped | 1 |
| Rare trees/ forest | 1 |
| Redwood preservation in particular, conservation in general | 1 |
| Redwoods | 1 |
| Redwoods | 2 |
| Redwoods being preserved | 1 |
| Redwoods natural plants and fish - although we did not see the salmon | 1 |
| Redwoods, Proximity to S.F. Trails | 1 |

| | |
|--|---|
| Relationship to quality of life | 1 |
| Same as 1a + woods, shade, varied habitat | 1 |
| Save redwoods | 1 |
| Saving the trees | 1 |
| Scenery | 1 |
| Serene, calm, quiet | 1 |
| Serenity | 3 |
| Serenity, majesty, peace, green, beauty | 1 |
| Silence, no unnatural sounds | 1 |
| So close to SF | 1 |
| That it exists to this day | 1 |
| That its protected forever wonder park service tutelage | 1 |
| That the park is purely natural and not damaged by people | 1 |
| That the trees are still here | 1 |
| That the woods are so pristine, un-peopled except for the boardwalk | 1 |
| That this immense beauty of a park has been preserved so close to Downtown San Francisco | 1 |
| The atmosphere of almost a sacred nature | 1 |
| The beautiful trees | 1 |
| The beauty of the entire park | 1 |
| The beauty of the park | 1 |
| The cleanliness of the trail | 1 |
| The closeness to SF, the redwoods, and trail nature information | 1 |
| The cost is not expensive for what we have | 1 |
| The creek and trees, cleanliness (no trash) | 1 |
| The design of walkways are user friendly and blend in to the natural beauty | 1 |
| The education of the park | 1 |
| The environmental historical and anthropological importance of what is being conserved there | 1 |
| The experience of being in a natural setting of great beauty with a large number of people without it seeming crowded. Cleanliness of entire woods | 1 |
| The fact that they are here! | 1 |
| The feeling that it is an oasis near the city | 1 |
| The foresight and dedication to preserve this beautiful place | 1 |
| The info about the history of these trees | 1 |
| The information provided at the trail | 1 |
| The information provided to visitors | 1 |
| The isolation and tranquility | 1 |
| The lack of commercialization | 1 |
| The majesty of the forest | 1 |
| The natural beauty of the redwood trees | 1 |
| The natural fell, preserved forest floor | 1 |
| The natural growth | 1 |

| | |
|--|---|
| The natural setting - the beauty of the trees and place | 1 |
| The natural setting and tranquility | 1 |
| The natural unmolested beauty | 1 |
| The naturalness | 2 |
| The naturalness | 1 |
| The naturalness being attained as much as possible | 1 |
| The naturalness of the trails | 1 |
| The nature, trees | 1 |
| The oldness of the trees and the quietness of the forest. Being able to enjoy nature's sounds. | 1 |
| The opportunities to see nature | 1 |
| The opportunity to see something, unavailable anywhere else in the world | 1 |
| The peace and quiet, the sunlight heading through the trees | 1 |
| The peaceful nature of the walk | 1 |
| The preservation | 1 |
| The preservation | 1 |
| The preservation of the park, and the good condition it was in | 1 |
| The preservation of the redwoods and native plant material | 1 |
| The preservation of the trees | 1 |
| The protection of nature | 1 |
| The protection of the area from development and ruin | 1 |
| The purity of the woods - lack of anything but original woods | 1 |
| The quantity of tall redwoods - the convenience to getting here from S.F. | 1 |
| The quiet, and beauty | 1 |
| The redwood trees | 1 |
| The redwoods | 2 |
| The redwoods | 1 |
| The redwoods themselves | 1 |
| The redwoods, learning about ecology | 1 |
| The redwoods, overall nature | 1 |
| The rich ancient geologic history associated with it | 1 |
| The stands or Redwoods easily accessible | 1 |
| The trails were nice | 1 |
| The tranquility and the untouched quality of the vegetation | 1 |
| The trees - the fact that it is untouched | 1 |
| The trees | 3 |
| The trees | 4 |
| The trees ability to block out the rest of the world | 1 |
| The trees accessibility | 1 |
| The trees and back trails | 1 |
| The trees and non-paved trails | 1 |
| The trees and their longevity | 1 |
| The trees left as they are, including the fallen ones | 1 |
| The trees of course and the salmon brook, water and trees make me happy | 1 |
| The trees themselves | 1 |

| | |
|--|---|
| The trees!!! | 1 |
| The trees, preservation and conservation | 1 |
| The trees, trails, and everything forest | 1 |
| The untouched aspect | 1 |
| The untouched, natural settings | 1 |
| The upkeep | 1 |
| The upkeep of the habitat | 1 |
| The way (or attempt) to conserve and preserve it's natural state | 1 |
| Their beauty and resistance | 1 |
| To allow people to come and see these trees in a national park without this park they may not have the opportunity | 1 |
| Total environment of relationship of fog, sun, creek, trees, soil, etc. | 1 |
| Tree Trail | 1 |
| Trees | 7 |
| Trees | 1 |
| TREES | 1 |
| Trees protected | 1 |
| Trees, cleanliness, natural | 1 |
| Trees, creek, animals | 1 |
| Trees, easy trails for older people or disabled plus other trails for hikers | 1 |
| Trees, forest | 1 |
| Trees, groves, intact Ansel Adams photo opts. | 1 |
| Trees, History of woods | 1 |
| Trees, peace, and quiet | 1 |
| Trees; quiet of redwood groves; trails | 1 |
| Unchanged, preserved, not tampered with | 1 |
| Unlike many redwood forests, undercover is minimal and open (flat bottom) canyon gives many views of the groves | 1 |
| Unspoiled nature | 1 |
| Very clean | 1 |
| Very easy to get around (great trails) yet still rugged | 1 |
| Very nicely preserved | 1 |
| Visual beauty and clean air | 1 |
| Well-preserved nature | 1 |
| Well maintained | 1 |
| What's here and that it's so close to the city | 1 |
| Woods are largely undisturbed and natural looking. Trees rule. | 1 |
| You didn't overtake it w/ man made things | 1 |

-----Page Break-----

| Q 9b. (Q 8b.) Why do you prefer the paved trail? | | |
|---|-----------|---------|
| | Frequency | Percent |
| A would keep people off area you do not want them | 1 | 1.9 |

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|--|---|-----|
| Allows visibility but some control -keeps honest people honest- on trail | 1 | 1.9 |
| Best for large # of people and wheelchair access | 1 | 1.9 |
| Boardwalks are noisy, dirt is fine - unless erosion | 1 | 1.9 |
| Clearly marked walking | 1 | 1.9 |
| Comfortable on feet | 1 | 1.9 |
| Does not allow people to go off trail (Preventative) | 1 | 1.9 |
| Easier to walk on | 1 | 1.9 |
| Easier to maintain an awareness of the trails edge while walking and looking up at the trees | 1 | 1.9 |
| Easier to walk | 1 | 1.9 |
| Easier to walk on | 1 | 1.9 |
| Easy to walk | 1 | 1.9 |
| Easy to walk on | 1 | 1.9 |
| Easy to walk on yet still close to nature | 1 | 1.9 |
| Good for kids | 1 | 1.9 |
| It's the nicest w/out being over developed | 1 | 1.9 |
| It keeps the "woods" atmosphere | 1 | 1.9 |
| It looks more natural, but is still safe | 1 | 1.9 |
| Its level and no so manufacture | 1 | 1.9 |
| Keep people on trail and accessible to all | 1 | 1.9 |
| Keeps people contained and preserves nature | 1 | 1.9 |
| Keeps people on the trail | 1 | 1.9 |
| Keeps people out of areas don't need to be, preserves the woods | 1 | 1.9 |
| Less likelihood of tripping | 1 | 1.9 |
| Less environmental impact | 1 | 1.9 |
| Less erosion | 1 | 1.9 |
| Less rocks/roots | 1 | 1.9 |
| Level surface - less intrusive - boundaries are clear | 1 | 1.9 |
| Links access to path, protects environment, people awful | 1 | 1.9 |
| Looks like a historical Pack | 1 | 1.9 |
| Looks more natural but still developed | 1 | 1.9 |
| Looks nicer | 1 | 1.9 |
| More easy for you to use when you have kids | 1 | 1.9 |
| More realistic, but not too primitive | 1 | 1.9 |
| Much better for wheelchair | 1 | 1.9 |
| Natural and accessible | 1 | 1.9 |
| Natural but safe - no small uneven spots to trip | 1 | 1.9 |
| Natural setting of wood easy for wheelchairs | 1 | 1.9 |
| Natural terrain my preference | 1 | 1.9 |
| No splinters except side rails | 1 | 1.9 |
| Railing makes it safe | 1 | 1.9 |
| Safe and easy to use but still natural looking | 1 | 1.9 |
| Safest of the three | 1 | 1.9 |

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|---|---|-----|
| Safety | 1 | 1.9 |
| Seems the best to protect and walk upon | 1 | 1.9 |
| Smoother walk | 1 | 1.9 |
| Smoothest for strollers and wheelchairs | 1 | 1.9 |
| So that there will be rules and regulation 2/o taking the nature side of it | 1 | 1.9 |
| The big trees | 1 | 1.9 |
| To keep people away from the trees to prevent damage | 1 | 1.9 |
| To protect environment and less noise and easier on the feet | 1 | 1.9 |
| Traction - foot and wheelchair | 1 | 1.9 |
| Visually pleasing and keeps kids on trail | 1 | 1.9 |
| Well maintain for future use by limiting off trail usage | 1 | 1.9 |

N = 54

| Q 9b. (Q 8b.) Why do you prefer the boardwalk? | | |
|--|-----------|---------|
| | Frequency | Percent |
| A better feeling of the outdoors | 1 | 0.7 |
| Accessibility, C-hiking | 1 | 0.7 |
| Accessibility | 1 | 0.7 |
| Aesthetically pleasing and more importantly best to protect soil compaction and stress of trees. | 1 | 0.7 |
| All are ok- depending on topography | 1 | 0.7 |
| All of the choices are acceptable. Boardwalk makes the roads very accessible for individuals of all ages | 1 | 0.7 |
| Allows more of a natural feeling yet allows use for strollers of wheelchairs | 1 | 0.7 |
| Appearance | 1 | 0.7 |
| Appropriate | 1 | 0.7 |
| Availability to all yet natural | 1 | 0.7 |
| Protects forest more than unpaved trails, less intrusive than paved trails | 1 | 0.7 |
| Better for the trees | 1 | 0.7 |
| Makes it easier to follow | 1 | 0.7 |
| Conservation and perhaps better for older folks | 1 | 0.7 |
| Bad knee | 1 | 0.7 |
| Balance | 1 | 0.7 |
| Because it lets roots of trees receive water better and breathe | 1 | 0.7 |
| Because it protects the trees and life of the forest | 1 | 0.7 |
| Because they were level and there is less of a chance for people to trip under crowded conditions | 1 | 0.7 |
| Best for forest | 1 | 0.7 |
| Best for large traffic, best for ecology | 1 | 0.7 |
| Better the dirt when it rains | 1 | 0.7 |

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|--|---|-----|
| Blends in with surrounding | 1 | 0.7 |
| Boardwalk is nice and controls crowds | 1 | 0.7 |
| Boardwalks protect natural fauna | 1 | 0.7 |
| Clean - easy to walk on | 1 | 0.7 |
| Clean | 1 | 0.7 |
| Clean and protection | 1 | 0.7 |
| Clean, peaceful, easy to walk | 1 | 0.7 |
| Clean, safe | 1 | 0.7 |
| Cleaner and easier to walk (follow) | 1 | 0.7 |
| Cleaner to walk on | 1 | 0.7 |
| Comfort/ definite boundary to walk within | 1 | 0.7 |
| Contributes to the "woody" feeling | 1 | 0.7 |
| Convenience and aesthetic view | 1 | 0.7 |
| Defined area - easy to walk but still looks natural | 1 | 0.7 |
| Does not hurt roots of trees and looks old | 1 | 0.7 |
| Ease of walk | 1 | 0.7 |
| Ease of walking | 1 | 0.7 |
| Easier and smoother to walk on | 1 | 0.7 |
| Easier on feet | 2 | 1.3 |
| Easier to walk | 3 | 2.0 |
| Easier to walk on in rain, more natural | 1 | 0.7 |
| Easier to walk on, cleaner, less likely to wander off trail | 1 | 0.7 |
| Easier/safer to walk | 1 | 0.7 |
| Easiest to walk, wide, comfortable | 1 | 0.7 |
| Easy access for all | 1 | 0.7 |
| Easy on feet - level (if in good repair) | 1 | 0.7 |
| Easy to maintain, level | 1 | 0.7 |
| Easy to walk on, natural looking | 1 | 0.7 |
| Easy walking | 1 | 0.7 |
| Eco-friendliness | 1 | 0.7 |
| Environmentally friendly | 1 | 0.7 |
| Even and comfortable | 1 | 0.7 |
| Except for around tree roots more natural, for protection | 1 | 0.7 |
| Footwear not an issue natural wood appealing | 1 | 0.7 |
| For large crowds, the boardwalks protects the landscape | 1 | 0.7 |
| For protection of root systems and insect colonies | 1 | 0.7 |
| For the level of traffic, unpaved trails would cause erosion and paved trails have too much impact | 1 | 0.7 |
| For the main trails, having a trail w/ clear edges that fits into the environment is nice | 1 | 0.7 |
| Great redwood boards, hardly affordable today | 1 | 0.7 |
| Ground w/out boards can be uneven, thus less safe | 1 | 0.7 |
| Has a woodsy feel but isn't as difficult as the dirt | 1 | 0.7 |
| Have arthritis - easier to walk on | 1 | 0.7 |
| I have a bad ankle and I have difficulty walking on | 1 | 0.7 |

| | | |
|--|---|-----|
| uneven surfaces | | |
| I like the boardwalk in the congested areas to take weight off tree roots. BUT its noisier than paved trails | 1 | 0.7 |
| I like unpaved trails at (beginning of walk) and the boardwalk at end | 1 | 0.7 |
| I like the look and feel of wood; less mud | 1 | 0.7 |
| In keeping and can us fallen trees | 1 | 0.7 |
| It keeps you out of the mud | 1 | 0.7 |
| It looks nice easy to walk on | 1 | 0.7 |
| It should be easy for general population to walk through. If people don't like it, don't look at it | 1 | 0.7 |
| Keeps you on path | 1 | 0.7 |
| Kid safe | 1 | 0.7 |
| Kids can't climb on fence, raised enough so people know not to get off trail | 1 | 0.7 |
| Less chance if tripping; easier for walkers, etc. | 1 | 0.7 |
| Less dust, less visual impact | 1 | 0.7 |
| Less impact on nature, attractive trail system. Also lessens erosion | 1 | 0.7 |
| Less impact on the site | 1 | 0.7 |
| Less impact walking on boardwalks than on paving - easier on the feet | 1 | 0.7 |
| Less obstructive | 1 | 0.7 |
| Level of incline | 1 | 0.7 |
| Like openness | 1 | 0.7 |
| Like the look and feel | 1 | 0.7 |
| Looks good, good walking surface | 1 | 0.7 |
| Looks nice | 1 | 0.7 |
| More comfortable | 1 | 0.7 |
| More comfortable walking | 1 | 0.7 |
| More natural - less eco disruptive "eco-friendly" | 1 | 0.7 |
| More natural | 3 | 2.0 |
| More natural but practical too. | 1 | 0.7 |
| More natural look | 1 | 0.7 |
| More rustic- keeps people on trail | 1 | 0.7 |
| Natural | 2 | 1.3 |
| Natural but not rugged | 1 | 0.7 |
| Natural but preserves natural quality | 1 | 0.7 |
| Natural feel | 1 | 0.7 |
| Natural feeling | 1 | 0.7 |
| Natural look but also liked unpaved trails | 1 | 0.7 |
| Natural looking while easy to walk on | 1 | 0.7 |
| Natural material but easy to travel | 1 | 0.7 |
| Natural setting | 1 | 0.7 |
| Natural wood less obtrusively restricted but know not to | 1 | 0.7 |

| | | |
|---|---|-----|
| get off | | |
| Natural, aesthetic pleasing, clean | 1 | 0.7 |
| Nice walking surface - rails don't take away from scenery | 1 | 0.7 |
| No impact on trail | 1 | 0.7 |
| No rail easy access | 1 | 0.7 |
| Pretty, neat, clean | 1 | 0.7 |
| Prevents damage to forest floor foot traffic | 1 | 0.7 |
| Protect the trees | 1 | 0.7 |
| Protects ground below, woodsy feel | 1 | 0.7 |
| Protects roots, keeps crowds in | 1 | 0.7 |
| Protects the soil and trees | 1 | 0.7 |
| Rails don't interfere w/ feeling of walking though the woods freely, but walkway keeps ground protected. | 1 | 0.7 |
| Rustic yet comfortable | 1 | 0.7 |
| Safe but don't feel restricted from surroundings | 1 | 0.7 |
| Safer | 1 | 0.7 |
| Safety | 1 | 0.7 |
| Safety comfort (for main areas) | 1 | 0.7 |
| Seemed natural and comfortable | 1 | 0.7 |
| Seems natural | 1 | 0.7 |
| Show how it is | 1 | 0.7 |
| Smooth surface | 1 | 0.7 |
| Smooth walking less impact on surroundings | 1 | 0.7 |
| Somewhat natural but easy to traverse | 1 | 0.7 |
| They provide a safe even surface | 1 | 0.7 |
| Though I prefer unpaved trails, boardwalks are better to handle the mount of people and keep them on the trail. It is more natural than paved trails. | 1 | 0.7 |
| Walking on wood is better plus has railing so you can sit down | 1 | 0.7 |
| Was to walk on, but also fits the environment | 1 | 0.7 |
| We have a blind family member and all could enjoy the "wilderness experience" | 1 | 0.7 |
| Wheel chair accessible | 1 | 0.7 |
| Wood easier to walk on - good for older/handicapped people | 1 | 0.7 |
| Wood works with nature | 1 | 0.7 |
| Wood, it looks more natural | 1 | 0.7 |
| Wooden trail, minimal trees on road | 1 | 0.7 |

N = 142

| Q 9b. (Q 8b.) Why do you prefer the unpaved trail? | | |
|--|-----------|---------|
| | Frequency | Percent |
| B/c it's the least intrusive to the environment | 1 | 0.7 |

| | | |
|--|---|-----|
| Better translation of the elements, keeps to same natural appearance | 1 | 0.7 |
| Boardwalk protects sensitive areas uneven dirt is less tiring on feet and legs | 1 | 0.7 |
| But! Ease of access to disabled and elderly is wonderful paved trails and boardwalks work for that | 1 | 0.7 |
| Feels more natural | 1 | 0.7 |
| Came here to see nature not a boardwalk, but for children and those w/ door mobility boardwalk is nice | 1 | 0.7 |
| Closer to nature, a little more challenging | 1 | 0.7 |
| Closer to the natural beauty of the park | 1 | 0.7 |
| Closest to nature, less people | 1 | 0.7 |
| Dirt paths feel more natural in the woods | 1 | 0.7 |
| Dirt paths keep it natural, but boardwalks make it more accessible | 1 | 0.7 |
| Easier on feet-dislike the asphalt | 1 | 0.7 |
| Easier to walk fast on, much more pleasant | 1 | 0.7 |
| Environmentally friendly | 1 | 0.7 |
| Feel like we are alone in the woods | 1 | 0.7 |
| Fits in more with the natural setting. W/fewer people less damage to area | 1 | 0.7 |
| For myself, I prefer dirt, but for elderly or handicapped paved is better | 1 | 0.7 |
| I feel like I'm in a natural woods area, not the zoo | 1 | 0.7 |
| I like remote trails | 1 | 0.7 |
| I like the illusion that I am alone and discovering this for the first time | 1 | 0.7 |
| I like the low impact look. For main trails it might not be practical, though. What about a paved trail with woodchip paths rather than asphalt? | 1 | 0.7 |
| It's fun to feel like you are actually hiking | 1 | 0.7 |
| It's more like hiking in "the woods" | 1 | 0.7 |
| It's more natural more eco-friendly and seems less costly to maintain | 1 | 0.7 |
| It feels more like I'm in wilderness | 1 | 0.7 |
| It feels more open / but boardwalk is nice also | 1 | 0.7 |
| It is more like being in the forest | 1 | 0.7 |
| Its more "natural" | 1 | 0.7 |
| Its more natural | 2 | 1.5 |
| Keep it real | 1 | 0.7 |
| Least developed | 1 | 0.7 |
| Less accessible - noise of nature, not people | 1 | 0.7 |
| Less crowded, natural | 1 | 0.7 |
| Less developed | 2 | 1.5 |
| Less invasion of natural setting | 1 | 0.7 |

| | | |
|---|----|------|
| Less human interference | 1 | 0.7 |
| Less impact on environment -more natural | 1 | 0.7 |
| Less influence on the surroundings | 1 | 0.7 |
| Less people - "boardwalk" trails nicest looking | 1 | 0.7 |
| Less people | 1 | 0.7 |
| Like unpaved trail because it looks most natural, but I understand the necessity of keeping all these people off tree roots | 1 | 0.7 |
| Like open uncut area of parks where it is not closed off. | 1 | 0.7 |
| Like the feel of natural ground | 1 | 0.7 |
| Like to hike in nature. More natural. | 1 | 0.7 |
| Like very rustic primitive settings- more natural | 1 | 0.7 |
| More natural | 1 | 0.7 |
| Looks much more natural | 1 | 0.7 |
| Love the natural areas the most | 1 | 0.7 |
| Makes me feel like I'm really out in nature | 1 | 0.7 |
| Minimum interference | 1 | 0.7 |
| More close to nature | 1 | 0.7 |
| More like tree nature | 1 | 0.7 |
| More natural, perhaps like a | 1 | 0.7 |
| More natural - but safety was maintained | 1 | 0.7 |
| More natural - easier on joints to walk on dirt | 1 | 0.7 |
| More natural - more satisfying real experience | 1 | 0.7 |
| More natural | 27 | 19.9 |
| More natural | 2 | 1.5 |
| More natural although the boardwalk helps those with strollers, wheelchairs, etc. | 1 | 0.7 |
| More natural but can still take a wheelchair hopefully | 1 | 0.7 |
| More natural compacted trails are quieter and feel better in nature | 1 | 0.7 |
| More natural feeling | 3 | 2.2 |
| More natural setting | 1 | 0.7 |
| More natural, but don't mind wood or asphalt if it helps with wear and tear, environment | 1 | 0.7 |
| More natural, less invasive | 1 | 0.7 |
| More natural. Makes you feel closer to the earth and not like at amusement park | 1 | 0.7 |
| More natural; softer on feet | 1 | 0.7 |
| More natural; you don't feel separated from the other trees | 1 | 0.7 |
| More nature | 1 | 0.7 |
| More rustic | 1 | 0.7 |
| More woodsy | 1 | 0.7 |
| Most natural - but I know people will most easily veer off this trail | 1 | 0.7 |

| | | |
|--|---|-----|
| Most natural | 2 | 1.5 |
| Most natural, deters crowds | 1 | 0.7 |
| Most natural, least impact | 1 | 0.7 |
| Much better | 1 | 0.7 |
| Natural - better exercise | 1 | 0.7 |
| Natural - but also liked the accessibility of boardwalk | 1 | 0.7 |
| Natural - less intrusive, others give more options | 1 | 0.7 |
| Natural | 4 | 2.9 |
| Natural feel, less crowded | 1 | 0.7 |
| Natural trail | 1 | 0.7 |
| Natural, bayb! I felt like a Spanish missionary | 1 | 0.7 |
| Prefer natural look | 1 | 0.7 |
| Preserve natural habitat better | 1 | 0.7 |
| Primitive means real nature | 1 | 0.7 |
| Quiet, wildlife however think accessibility (wheelchair etc.) | 1 | 0.7 |
| Quieter, more natural, less crowded | 1 | 0.7 |
| Represents a nature trail, I enjoy this fast hiking. More a nature feel | 1 | 0.7 |
| Rustic by nature/more natural | 1 | 0.7 |
| Rustic quality of actual hiking | 1 | 0.7 |
| Seems more natural - feel more a part of it | 1 | 0.7 |
| Seems more natural | 2 | 1.5 |
| Use a walking stick that makes noise on boardwalks | 1 | 0.7 |
| Visually more natural (but paved trail may be preferable to keep people off) | 1 | 0.7 |
| We prefer natural surroundings | 1 | 0.7 |
| Will be less busy - more natural | 1 | 0.7 |
| You're outside, others seem over-developed | 1 | 0.7 |

N = 136